STATE OF INDIANA

FILED

INDIANA UTILITY REGULATORY COMMISSION

MAY 0 4 2007

| PETITION OF THE CITY OF EVANSVILLE, |) INDIANA UTILITY |
|---|-------------------------|
| INDIANA, BY ITS WATER AND SEWER UTILITY |) REGULATORY COMMISSION |
| BOARD, FOR AUTHORITY TO ISSUE BONDS, |) . |
| NOTES, OR OTHER OBLIGATIONS, FOR |) |
| AUTHORITY TO INCREASE ITS RATES AND |) |
| CHARGES FOR WATER SERVICE, AND FOR | |
| APPROVAL OF NEW SCHEDULES OF WATER |) |
| RATES, CHARGES, AND RULES AND |) CAUSE NO. 43190 |
| REGULATIONS FOR WATER SERVICE, AND |) |
| FOR APPROVAL OF ACCOUNTING AND |) |
| RATEMAKING TREATMENT FOR WATER |) |
| SERVICE TO REFLECT THE IMPACT OF |) |
| REASONABLY FIXED, KNOWN AND | |
| MEASUREABLE CAPITAL REQUIREMENTS |) |
| OVER THE NEXT THREE CALENDAR YEARS. |) |
| | |

PREFILED TESTIMONY AND EXHIBITS OF

MARGARET A. STULL – PUBLIC'S EXHIBIT NO. 1

ROGER A. PETTIJOHN – PUBLIC'S EXHIBIT NO. 2

THE INDIANA OFFICE OF

UTILITY CONSUMER COUNSELOR

MAY 2007

Respectfully submitted,

Karol H. Krohn

Assistant Consumer Counselor

CERTIFICATE OF SERVICE

This is to certify that a copy of the foregoing has been served upon the following parties of record in the captioned proceeding by electronic mail on May 4, 2007.

George A. Porch Bowers Harrison LLP 25 N.W. Riverside Drive Evansville, Indiana 47708 J. Christopher Janak L. Parvin Price Bose McKinney & Evans LLP 2700 First Indiana Plaza 125 N. Pennsylvania St. Indianapolis, IN 46204

Karol H. Krohn Atty. No. 5566-82 Assistant Consumer Counselor

INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR

100 N. Senate Ave., Room N501 Indianapolis, IN 46204-2215 infomgt@oucc.in.gov 317/232-2494 – Phone 317/232-5923 – Facsimile

MARGARET A. STULL - PUBLIC'S EXHIBIT NO. 1

TESTIMONY OF MARGARET A. STULL CAUSE NO. 43190 CITY OF EVANSVILLE MUNICIPAL WATER DEPARTMENT

| | | I. Introduction |
|----|----|---|
| 1 | Q: | Please state your name and business address. |
| 2 | A: | My name is Margaret A. Stull and my business address is Indiana Government Center |
| 3 | | North, Room N501, 100 North Senate Avenue, Indianapolis, Indiana 46204. |
| 4 | Q: | By whom are you employed and in what capacity? |
| 5 | A: | I am employed by the Indiana Office of Utility Consumer Counselor ("OUCC") as a |
| 6 | | Utility Analyst in the Water/Wastewater Division. |
| 7 | Q: | Please describe your background and experience. |
| 8 | A: | I graduated from the University of Houston at Clear Lake City in August 1982 with a |
| 9 | | Bachelor of Science degree in accounting. From 1982 to 1985, I held the position of Gas |
| 10 | | Pipeline Accountant at Seagull Energy in Houston, Texas. From 1985 until 2001 I |

Pipeline Accountant at Seagull Energy in Houston, Texas. From 1985 until 2001 I worked for Enron in various positions of increasing responsibility and authority; first in their gas pipeline accounting department, then in financial reporting and planning, both for the gas pipeline group and the international group, and finally providing accounting support for infrastructure projects in Central and South America. From 2002 until 2003, I held non-utility accounting positions in Indianapolis. In August 2003, I accepted my current position with the OUCC. Since joining the OUCC I have attended the NARUC Eastern Utility Rate School in Clearwater Beach, Florida.

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| l | Q: | Have you need any professional ficenses? |
|----------|----|--|
| 2 | A: | Yes. I passed the CPA exam in 1984 and was licensed as a CPA in the State of Texas. |
| 3 4 | Q: | Have you testified previously before the Indiana Utility Regulatory Commission ("IURC" or "Commission")? |
| 5 | A: | Yes. |
| 6 | Q: | What is the purpose of your testimony? |
| 7 | A: | I address Petitioner's proposed phased-in rate increase and specific revenue requirements, |
| 8 | | In addition, I propose pro forma adjustments to certain test year operating expenses. |
| 9 10 | Q: | What have you done to prepare for your presentation of testimony in this proceeding? |
| 11 | A: | I read Petitioner's testimony, reviewed its workpapers, and conducted an onsite review of |
| 12 | | Petitioner's books and records with other OUCC technical staff (March 28 - 30, 2007). I |
| 13 | | also reviewed Petitioner's IURC Annual Reports for the years 2005, 2004, and 2003 and |
| 14 | | its responses to OUCC discovery request questions. Finally, I attended several meetings |
| 15 | | with other OUCC staff members to identify and discuss the issues in this cause. |
| 16 | Q: | Are you sponsoring any schedules or attachments? |
| 17 | A: | Yes. I am sponsoring the following eight (8) accounting schedules: |
| 18 19 | | Schedule 1 - Water Revenue Requirement and Reconciliation of Net Operating Income Statement Adjustments |
| 20 21 | | Schedule 2 - Comparative Balance Sheet as of May 31, 2006 and December 31, 2005, 2004, and 2003 |
| 22 23 | | Schedule 3 – Comparative Income Statement for the Years Ended May 31, 2006 and December 31, 2005, 2004, and 2003 |
| 24 | | Schedule 4 - Pro Forma Net Operating Income Statement |
| 25 | | Schedule 5 Pavenue Adjustments |

| 1 | | Schedule 6 – Expense Adjustments |
|----|------|---|
| 2 | | Schedule 7 – Working Capital |
| 3 | | Schedule 8 – Debt Service |
| 4 | | II. Petitioner's Proposed Rate Increase |
| 5 | Q: | What is Petitioner requesting in this cause? |
| 6 | A: | Petitioner is requesting approval of an across-the-board, three-phase rate increase and |
| 7 | | authority to issue \$36,000,000 in long-term debt through revenue bonds. |
| 8 | Q: | Please explain Petitioner's proposed three-phase rate increase. |
| 9 | A: - | Petitioner proposes to spread the effect of its proposed rate increase over three years, with |
| 10 | | three separate, consecutive annual rate increases. The Phase I increase would take effect |
| 11 | | immediately, prior to Petitioner incurring additional long-term debt for planned capital |
| 12 | - | improvement projects. The Phase I rate increase would cover increased operating |
| 13 | | expenses since Petitioner's last rate case. |
| 14 | | The proposed Phase II increase would take place approximately one year later, when |
| 15 | | Petitioner plans to issue the new revenue bonds. The Phase II rate increase would cover |
| 16 | | increased depreciation and payments in lieu of property tax ("PILT") after completing |
| 17 | | ongoing capital improvement projects funded in Petitioner's last rate case. The Phase II |
| 18 | | increase would also cover the first year of debt service on the new revenue bonds |
| 19 | | proposed in this cause; and the associated increase in utility receipts tax ("URT"). |
| 20 | | The proposed Phase III rate increase would take place approximately one year after Phase |
| 21 | | II, when Petitioner has completed construction of the new proposed capital improvement |

projects. The proposed rate increase in Phase III would cover increased depreciation and

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- PILT related to the new capital improvement projects, debt service on the new revenue
- bonds (using a five-year average), and the associated increase in URT.

3 Q: How much of a rate increase is Petitioner requesting?

- 4 A: Petitioner is requesting an overall cumulative rate increase of 43.50% (Schedule 1, page
- 5 1), broken down as follows:

| 6 | Phase I | 12.10% |
|---|---------|--------|
| | | |

7 Phase II 16.80%

8 Phase III 9.60%

- 9 Q: Please explain why the sum of those three rate increases (which equals 38.50%) is less than the total overall rate increase requested by the Petitioner (i.e., 43.50%).
- 12 Because the three rate increases are cumulative, one cannot simply add the three 12 individual rate increases together to determine the overall rate increase. There is a 13 compounding effect, since the rate increase in Phase II will be applied to total revenue 14 from increased rates already implemented in Phase I. Similarly, the rate increase 15 proposed for Phase III will be applied to already higher rates implemented in Phase II.

16 Q: Do you accept Petitioner's proposed cumulative rate increase of 43.50%?

Yes. While Petitioner's asserted *pro forma* revenue requirement would justify a rate increase in excess of 50.0% (if accurate), the Petitioner is only proposing to increase rates by 43.50%, and to do so gradually, over a three-year period. (Although I do not agree that Petitioner has justified a rate increase in excess of 50.0%, the increase in revenue requirement I verified still exceeds Petitioner's proposed 43.50% cumulative rate increase. Therefore, the OUCC accepts the three-phase rate increase Petitioner proposed, for a total, overall rate increase of 43.50%.

Q: Do you accept Petitioner's proposed phase-in of rates in this cause?

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A:

Yes. I believe that Petitioner's proposed phase-in of rates is reasonable under the circumstances. Subsequent phases are triggered by specific events, so rates will not increase until those events occur. Phase II rates will not go into effect until Petitioner has issued its new revenue bonds. Similarly, Phase III rates will not go into effect until Petitioner completes (or substantially completes) the capital improvement projects to be funded with new revenue bonds. This method also facilitates any true-ups that might be required due to variances in interest rates, actual project costs, the total amount of new debt issued, actual debt service reserve requirements, *etc*.

III. Petitioner's Pro Forma Revenue Requirement

- 11 Q: Please explain how the overall cumulative revenue requirement you projected differs from the amount the Petitioner proposed.
- A: As shown in the following table (Table MAS-1), I agree with most of Petitioner's *pro* forma revenue requirements. However, there are differences in operating expenses, taxes other than income, and PILT. (See Table MAS-1 on next page.)

Table MAS-1: Differences in *Pro Forma* Revenue Requirements

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| | Per | Per | OUCC |
|------------------------------------|---------------|---------------|----------------|
| _ | Petitioner | OUCC | More (Less) |
| Operating Expenses | \$ 13,311,317 | \$ 12,850,272 | \$ (461,045) |
| Taxes other than Income | 543,413 | 548,346 | 4,933 |
| Depreciation Expense | 3,043,118 | 3,043,118 | - |
| Working Capital | - | - | . - |
| Payment in Lieu of Taxes | 992,990 | 904,765 | (88,225) |
| Debt Service | 5,173,267 | 5,173,267 | - |
| Debt Service Reserve | | | |
| Total Revenue Requirements | 23,064,105 | 22,519,768 | (544,337) |
| Less: Interest Income | (287,018) | (287,018) | - |
| Rental Income | (1,160) | (1,160) | - |
| Misc. Non-Operating Income | (23,406) | (23,406) | - |
| Pro forma Net Revenue Requirements | \$ 22,752,521 | \$ 22,208,184 | \$ (544,337) |

IV. Revenue Adjustments

Q: What adjustments to test year revenue did Petitioner propose?

A: Petitioner made several *pro forma* adjustments that resulted in an overall increase of \$234,413 to operating revenues. Those adjustments included normalization of test year growth in residential and commercial water revenues, normalization of the fire protection surcharge, and reimbursement of joint costs from the Evansville Municipal Sewer Utility and Vanderburgh County.

9 Q: Did you accept any of Petitioner's revenue adjustments?

Yes, I accepted all of Petitioner's revenue adjustments discussed above and agree with Petitioner's calculation of total *pro forma* present rate revenues of \$16,105,708.

V. Operating Expense Adjustments

2 Q: Did you accept any of Petitioners's operating expense adjustments?

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A:

Yes. As shown in the table below (Table MAS-2), I accepted Petitioner's adjustments for salaries and wages, PERF contributions, employee health insurance, and worker's compensation insurance. I also accepted Petitioner's adjustments for liability insurance and IDEM fees. However, I proposed modifications to Petitioner's adjustments for maintenance expense, contractual services, non-recurring expenses, and the Teamsters' scholarship fund expense. Finally, I proposed an additional adjustment for property taxes Petitioner paid during the test year.

Table MAS-2: Differences in Adjustments to Pro Forma Operating Expenses

| | Per Petitioner | Per OUCC | OUCC More (Less) |
|-----------------------------|-------------------|--------------|---------------------|
| O&M Expense | | | |
| Salaries & Wages | \$ 266,966 | \$ 266,966 | \$ - |
| PERF | 48,499 | 48,499 | - |
| Health & Life Insurance | 102,092 | 102,090 | (2) |
| Workman's Comp Insurance | 3,313 | 3,313 | - |
| Teamster's Scholarship Fund | (218) | (114) | 104 |
| Maintenance | 353,007 | 250,507 | (102,500) |
| Non-recurring Expenses | (288,861) | (316,499) | (27,638) |
| Contractual Services | 1,268,699 | 938,694 | (330,005) |
| Liability Insurance | 17,303 | 17,305 | 2 |
| IDEM Fee | (36,237) | (36,237) | - |
| Property Tax | - | (1,006) | (1,006) |
| | \$ 1,734,563 | \$ 1,273,518 | \$ (461,045) |

- 10 Q: Please explain your proposed adjustment to Petitioner's Teamster's Scholarship Fund expense.
- 12 A: *Pro forma* salaries and wages have been calculated based upon 83 employees, 77 of which are union employees subject to the Teamster's Scholarship Fund expense.

Petitioner's adjustment is based upon 76 union employees. The annual expense per union 2 employee is \$104, or \$8,008 for 77 employees. Schedule 6, Adjustment 6 yields a pro-3 forma decrease of \$114 to that test year operating expense.

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Q:

A:

Please explain the changes you made to Petitioner's proposed maintenance expense adjustment.

During the test year, most periodic maintenance expenses were included in the management fees paid to EA2/American Water under the Operations Management Contract. Under that agreement, any maintenance expense that was less than \$10,000 per incident was included in the services EA2/American Water was required to provide (without any additional reimbursement) under the Operations Management Contract. Under the original agreement, Petitioner was required to pay any maintenance costs that exceeded \$10,000 per item.

However, in 2007 the EA2/American Water Operations Management Agreement was renegotiated. The agreement now states that maintenance expenses under \$5,000 are covered in the monthly management fee. As before, there is a ceiling for these costs and a true-up process if total costs are more or less than projected. Petitioner proposes adjustments to test year operating expenses to include additional periodic maintenance expenses for pump maintenance, booster station maintenance, filter media replacement, I made three amendments to those proposed tank cleaning and tank painting. maintenance expenses. First, I eliminated expenses related to pump maintenance since those maintenance costs should be less than \$5,000 per pump and, therefore, already covered in monthly management fees. I also eliminated expenses for booster station maintenance for the same reason -i.e., individual expenses would be less than \$5,000. Finally, I adjusted tank painting expenses. I added an allowance for future painting of the new tank Petitioner plans to construct as part of its proposed operating projects. I also amortized all tank painting expenses over fifteen years, rather than the ten years proposed by Petitioner. The Prefiled Testimony OUCC Witness, Mr. Roger Pettijohn, provides further support for the OUCC's proposed use of a fifteen-year tank painting amortization period. After netting the above adjustments, I recommend a \$250,507 pro forma increase to Petitioner's test year maintenance expenses (OUCC Schedule 6, Adjustment 7).

A:

Q: Please explain your proposed amendment to Petitioner's adjustment to total test year non-recurring operating expenses.

Petitioner proposed a \$288,861 reduction to its test year non-recurring expenses.

Although I agreed with everything in Petitioner's proposed adjustment, I found an additional \$27,638 in non-recurring expenses that should be eliminated from Petitioner's test year operating expenses. Following is a break-down of the additional \$27,638 that should be removed from Petitioner's test year operating expenses:

| 14 | Hinderliter Environmental | Removal of fuel tanks | \$ 1,248 |
|----|---------------------------|------------------------------|------------------|
| 15 | Annette Wright | Contract Employee | 898 |
| 16 | CSX Transportation | Encroachment inventory fee | 500 |
| 17 | CSX Transportation | Duplicate annual fee | 6,380 |
| 18 | ESRI | Duplicate annual license fee | 18,112 |
| 19 | NASCIO | Duplicate annual dues | 500 |
| 20 | | | <u>\$ 27,638</u> |

In summary, after netting all of the above OUCC test year operating expense adjustments, I recommend a \$316,499 *pro forma* decrease to Petitioner's total test year operating expenses (Schedule 6, Adjustment 8).

1 Q: Please explain your proposed change to Petitioner's contractual services expense adjustment.

After reviewing pertinent contracts and test year expenses, I agreed with all of the *pro forma* adjustments in this category, except for a minor change to Petitioner's proposed *pro forma* adjustment to management fees under the renegotiated Operations Management Contract. Under the renegotiated agreement, the annual fee paid to American Water includes certain amounts for purchased power and chemical costs. The current agreement shows the following projected amounts already included in the annual management fee:

| 10 | Chemicals | \$1,024,023 |
|----|-------------|-------------|
| 11 | Electric | 900,000 |
| 12 | Natural Gas | 47,700 |

A:

The current agreement allows for a quarterly true-up if actual costs are less than projected costs. In its discovery responses, Petitioner provided the following test year expense figures:

| 16 | Chemicals | \$ 667,179 |
|----|-------------|------------|
| 17 | Electric | 844,768 |
| 18 | Natural Gas | 30.007 |

Although electric and natural gas costs appear to be reasonable projections, chemical costs are projected to increase \$356,844 over test year, a 53.4% increase. Petitioner offered no evidence to suggest that its chemical costs would increase by the magnitude indicated above; so I proposed a further \$330,000 reduction to test year management fees to adjust for anticipated chemical cost true-ups. Taking all adjustments to test year operating expenses into account, I recommend a \$938,694 *pro forma* increase to test year operating expenses (OUCC Schedule 6, Adjustment 9).

| 1 | Q: | Please explain your adjustment eliminating test year property tax expense. |
|----|----|---|
| 2 | A: | During the test year, Petitioner paid \$1,006 in property taxes on utility property. As a |
| 3 | | municipal utility, Petitioner is exempt from paying property taxes per Ind. Code § 6-1.1- |
| 4 | | 10-5. Schedule 6, Adjustment 15 yields a pro forma decrease of \$1,006 to test year |
| 5 | | operating expenses. |
| | | |
| 6 | | VI. Adjustments to Taxes Other than Income Tax |
| 7 | Q: | What adjustments to test year taxes other than income tax did Petitioner propose? |
| 8 | A: | Petitioner proposed adjustments to FICA, PILT, and URT. |
| 9 | Q: | Did you accept any of Petitioner's adjustments for taxes other than income tax? |
| 10 | A: | Yes. I accepted Petitioner's FICA adjustment. |
| 11 | Q: | Please explain your amendments to Petitioner's PILT adjustment. |
| 12 | A: | I agreed with most of Petitioner's PILT calculation. However, my analysis differed on |
| 13 | | two points. First, Petitioner included additional plant in Phases II and III, but neglected |
| 14 | | to update accumulated depreciation. Second, in Phase II Petitioner did not update the |
| 15 | | offset used for plant located outside of the city. Schedule 6, Adjustment 13 yields an |
| 16 | | overall <i>pro forma</i> increase of \$352,971 to test year taxes other than income tax. |
| 17 | Q: | Please explain your amendments to Petitioner's URT adjustment. |
| 18 | A: | I basically agreed with Petitioner's calculation of URT, with one exception. Sales for |
| 19 | | resale are exempt from the URT and should not be included in revenue when calculating |
| 20 | | Petitioner's pro forma URT expense. Schedule 6, Adjustment 14 yields an overall pro |
| 21 | | forma increase of \$83,200 to test year taxes other than income tax. |

| 1 | | VII. <u>Depreciation Expense</u> |
|----------|------------|--|
| 2 3 | Q : | Did petitioner request extensions and replacements ("E&R") as part of its revenue requirements? |
| 4 | A: | No. Petitioner has requested depreciation expense instead of E&R. As a municipal |
| 5 | | utility, this is an allowable revenue requirement and does not require support. However, |
| 6 | | Petitioner provided a ten-year master plan as part of its evidence in this case. The master |
| 7 | | plan shows that Petitioner has considered its needs and future system requirements and |
| 8 | | has plans on how it will spend depreciation funds recovered in rates. |
| 9 10 | Q: | Does the OUCC agree with Petitioner's calculation of its depreciation expense revenue requirement? |
| 11 | A: | Yes. Petitioner's calculation of depreciation is reasonable, applying a 2% composite |
| 12 | | depreciation rate, as ordered in Cause No. 42176. Schedule 6, Adjustment 12 yields an |
| 13 | | overall pro forma increase of \$1,074,237 to test year depreciation expense. |
| 14 | | VIII. Working Capital |
| 15 | Q: | Did Petitioner request working capital as part of its revenue requirements? |
| 16 | A: | No. As demonstrated on Schedule 7, Petitioner had sufficient cash reserves on hand at |
| 17 | | the end of the test year and therefore does not need any additional working capital. |
| 18 | | IX. <u>Debt Service</u> |
| 19 20 | Q: | Does the OUCC agree with Petitioner's proposed debt financing and debt service revenue requirements? |
| 21 | A: | Yes. The OUCC believes that Petitioner's proposed financing is a reasonable method to |
| 22 | | fund its proposed capital improvement projects and that Petitioner should be permitted to |

proceed with its financing plans. The OUCC also accepts Petitioner's proposed debt amortization schedule.¹

Q: Is the OUCC proposing a true-up once the debt is issued?

Yes. The OUCC proposes that a true-up process be implemented after Petitioner issues its debt to adjust for any differences. Petitioner should be required to file with the Commission, within 30 days after issuance of the debt, a report indicating the actual interest rate and amount borrowed, along with an updated amortization schedule. If the amortization schedule is materially different from that provided in this cause, Petitioner should promptly file a revised tariff with the Commission, incorporating any rate changes required under the true-up process.

X. Conclusion

Q: Please summarize your recommendations.

Petitioner should be allowed to increase its rates in three phases as requested – with a 12.10% increase in Phase II, another 16.8% increase in Phase III, and a final 9.6% increase in Phase III -- yielding a total overall rate increase of 43.5%. Further, I recommend that the Commission order Petitioner to provide a true-up report within 30 days of issuing debt and, in the event of any material differences, Petitioner should promptly file a revised tariff with the Commission to give effect to changes identified in the true-up process.

Q: Does this conclude your testimony?

21 A: Yes.

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¹ Note that Petitioner is not requesting debt service reserve as part of its revenue requirement, since any required reserve will be included in the amount being financed.

Comparison of Petitioner's and OUCC's Revenue Requirements

Overall Cumulative Rate Increase

| | As Requested By Petitioner | Per OUCC | Sch Ref | OUCC More (Less) |
|---|-------------------------------|---------------|------------|---------------------|
| Operating Expenses | \$ 13,311,317 | \$ 12,850,272 | 4 | \$ (461,045) |
| Taxes other than Income | 543,413 | 548,346 | 4 | 4,933 |
| Depreciation Expense | 3,043,118 | 3,043,118 | 4 | - |
| Working Capital | - | - - | 7 | - |
| Payment in Lieu of Taxes | 992,990 | 904,765 | 4 | (88,225) |
| Debt Service | 5,173,267 | 5,173,267 | 8 | - |
| Debt Service Reserve | | | | |
| Total Revenue Requirements | 23,064,105 | 22,519,768 | | (544,337) |
| Less: Interest Income | (287,018) | (287,018) | Pet | - |
| Rental Income | (1,160) | (1,160) | Pet | - |
| Misc. Non-Operating Income Add: Other Expenses | (23,406) | (23,406) | Pet | - |
| Net Revenue Requirements | 22,752,521 | 22,208,184 | | (544,337) |
| Less: Revenues at current rates subject to increase | | (13,283,734) | 4 | · · · · · |
| Other revenues at current rates | (2,821,974) | (2,821,974) | 4 | - |
| Net Revenue Increase Required | 6,646,813 | 6,102,476 | | (544,337) |
| Less: Revenues not requested | (868,078) | | | 868,078 |
| Recommended Increase | \$ 5,778,735 | \$ 6,102,476 | | \$ 323,741 |
| Requested Percentage Increase | 43.50% | 45.94% | | 2.44% |

Comparison of Petitioner's and OUCC's Revenue Requirements

| | | Phase I | | |
|---|-------------------|---------------|------------|---------------------|
| | Per Petitioner | Per OUCC | Sch Ref | OUCC More (Less) |
| Operating Expenses | \$ 13,311,317 | \$ 12,850,272 | 4 | \$ (461,045) |
| Taxes other than Income | 465,146 | 466,051 | 4 | 905 |
| Depreciation Expense | 2,062,300 | 2,062,300 | 6-12 | - |
| Working Capital | - | - | 7 | -] |
| Payment in Lieu of Taxes | 514,408 | 514,408 | 6-13 | - |
| Debt Service | 2,512,234 | 2,512,234 | 8 | - |
| Debt Service Reserve | | | | |
| Total Revenue Requirements | 18,865,405 | 18,405,265 | | (460,140) |
| Less: Interest Income | (287,018) | (287,018) | Pet | - 1 |
| Rental Income | (1,160) | (1,160) | Pet | - |
| Misc. Non-Operating Income | (23,406) | (23,406) | Pet | - |
| Net Revenue Requirements | 18,553,821 | 18,093,681 | | (460,140) |
| Less: Revenues at current rates subject to increase | (13,283,734) | (13,283,734) | 4 | - 1 |
| Other revenues at current rates | (2,821,974) | (2,821,974) | 4 | |
| Net Revenue Increase Required | 2,448,113 | 1,987,973 | | (460,140) |
| Add: Additional Utility Receipts Tax | 22,456 | 27,175 | 6-14 | 4,719 |
| Recommended Increase | \$ 2,470,569 | \$ 2,015,148 | | \$ (455,421) |
| Recommended Percentage Increase | 18.60% | 15.17% | | <u>-3.43%</u> |
| | , | | <u> </u> | |
| Requested Increase | \$ 1,607,332 | \$ 2,015,148 | | \$ 407,816 |
| Requested Percentage Increase | 12.10% | 15.17% | | 3.07% |
| | | | | |

| Phase II | | | | | | | | |
|-------------------|-----------------|------------|---------------------|--|--|--|--|--|
| Per Petitioner | Per OUCC | Sch Ref | OUCC Mare (Less) | | | | | |
| rentioner | | | More (Less) | | | | | |
| \$ 13,311,317 | \$ 12,850,272 | 4 | \$ (461,045) | | | | | |
| 487,602 | 493,226 | 4 | 5,624 | | | | | |
| 2,426,996 | 2,426,996 | 4 | - | | | | | |
| - | - | 7 | - | | | | | |
| 702,956 | 639,826 | 4 | (63,130) | | | | | |
| 4,428,417 | 4,428,417 | 8 | - | | | | | |
| | | | | | | | | |
| 21,357,288 | 20,838,737 | | (518,551) | | | | | |
| (287,018) | (287,018) | Pet | | | | | | |
| (1,160) | (1,160) | Pet | - | | | | | |
| (23,406) | (23,406) | Pet | - | | | | | |
| 21,045,704 | 20,527,153 | | (518,551) | | | | | |
| (14,891,065) | (15,298,882) | 4 | (407,817) | | | | | |
| (2,821,974) | (2,821,974) | 4 | | | | | | |
| 3,332,665 | 2,406,297 | | (926,368) | | | | | |
| 33,471 | 32,894 | 4 | (577) | | | | | |
| \$ 3,366,136 | \$ 2,439,191 | | \$ (926,945) | | | | | |
| 22.61% | 15.94% | | -6.66% | | | | | |
| | | | | | | | | |
| \$ 2,501,699 | \$ 2,439,191 | | \$ (62,508) | | | | | |
| | _ _ | | | | | | | |
| 16.80% | 15.94% | | -0.86% | | | | | |

| Phase III | | | | | | | | | |
|-------------------|---------------|------------|---------------------|--|--|--|--|--|--|
| Per Petitioner | Per OUCC | Sch Ref | OUCC More (Less) | | | | | | |
| \$ 13,311,317 | \$ 12,850,272 | 4 | \$ (461,045) | | | | | | |
| 521,073 | 526,120 | 4 | 5,047 | | | | | | |
| 3,043,118 | 3,043,118 | 6-12 | - | | | | | | |
| - | - | 7 | • | | | | | | |
| 992,990 | 904,765 | 6-13 | (88,225) | | | | | | |
| 5,173,267 | 5,173,267 | 8 | - | | | | | | |
| | | | | | | | | | |
| 23,041,765 | 22,497,542 | | (544,223) | | | | | | |
| (287,018) | (287,018) | Pet | - | | | | | | |
| (1,160) | (1,160) | Pet | - | | | | | | |
| (23,406) | (23,406) | Pet | - | | | | | | |
| · | | | | | | | | | |
| 22,730,181 | 22,185,958 | | (544,223) | | | | | | |
| (17,392,764) | (17,738,073) | 4 | (345,309) | | | | | | |
| (2,821,974) | (2,821,974) | 4 | <u> </u> | | | | | | |
| 2,515,443 | 1,625,911 | | (889,532) | | | | | | |
| 22,340 | 22,226 | 6-14 | (114) | | | | | | |
| -2,5 10 | , | | (=: , | | | | | | |
| \$ 2,537,783 | \$ 1,648,137 | | \$ (889,646) | | | | | | |
| 14.59% | 9.29% | | -5.30% | | | | | | |
| 15770 | | | | | | | | | |
| | | | | | | | | | |
| \$ 1,669,705 | \$ 1,648,137 | | \$ (21,568) | | | | | | |
| 9.60% | 9.29% | | -0.31% | | | | | | |

Reconciliation of Net Operating Income Statement Adjustments *Pro-forma* Present Rates

| | 4 | · | |
|---|----------------|----------------|-------------|
| | Per | Per | OUCC |
| | Petitioner | OUCC | More (Less) |
| Operating Revenues | | | 1 |
| Residential Water Sales | \$ 30.761 | \$ 30,761 | s - |
| Commercial and Industrial Water Sales | 17,902 | 17,902 | _ |
| Sales for Resale | `- | | - 1 |
| Fire Protection | 18,317 | 18,317 | - |
| Penalties | · - | , - | |
| Other | 37,387 | 37,387 | - |
| Sewer Utility Portion of General Expenses | 130,046 | 130,046 | - |
| Total Operating Revenues | 234,413 | 234,413 | - |
| • | | | |
| O&M Expense | | | |
| Salaries & Wages | 266,966 | 266,966 | . |
| PERF | 48,499 | 48,499 | |
| Health & Life Insurance | 102,092 | 102,090 | (2) |
| Workman's Comp Insurance | 3,313 | 3,313 | - |
| Teamster's Scholarship Fund | (218) | (114) | 104 |
| Maintenance | 353,007 | 250,507 | (102,500) |
| Non-recurring Expenses | (288,861) | (316,499) | (27,638) |
| Contractual Services | 1,268,699 | 938,694 | (330,005) |
| Liability Insurance | 17,303 | 17,305 | 2 |
| IDEM Fee | (36,237) | (36,237) | |
| Property Tax | - | (1,006) | (1,006) |
| B. Carlotte | 02.410 | 02.410 | |
| Depreciation Expense | 93,419 | 93,419 | - |
| Taxes Other than Income | 24.900 | 24,900 | |
| Payroll Taxes PILT | (37,386) | (37,386) | |
| Utility Receipts Tax | (37,380) | 905 | 905 |
| Offinity Receipts Tax | • | 903 | ,03 |
| Total Operating Expenses | 1,815,496 | 1,355,355 | (460,141) |
| Net Operating Income. | \$ (1,581,083) | \$ (1,120,942) | \$ 460,141 |
| | | | |

| | | | Phase II | | |
|--------------|----------|----|-----------|---------|-----------|
| J | Per | | | OUCC | |
| Peti | tioner | C | OUCC | Mo | re (Less) |
| | | | | | |
| \$ | | \$ | | \$ | _ |
| . | _ | • | - | • | _ |
| | _ | | - | | _ |
| | _ | | - | | - |
| | - | | - | | - |
| | - | | - | | - |
| | | | <u>-</u> | | |
| | - | | - | | - |
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| | - | | - | | - |
| | - | | - | | * |
| | - | | - | | - |
| | - | | - | | - |
| | - | | - | | - |
| | - | | - | | _ |
| | _ | | - | | _ |
| | _ | | | | _ |
| | - | | _ | | - |
| | - | | - | | - |
| | | | | | |
| | 364,696 | | 364,696 | | - |
| | | | | | |
| | - | | - | | - |
| | 188,548 | | 125,418 | | (63,130) |
| | 33,471 | | 32,894 | | (577) |
| | 506 316 | | 522.008 | | (62.707 |
| | 586,715 | | 523,008 | | (63,707) |
| \$ (: | 586 7151 | ç | (523,008) | \$ | 63,707 |
| .) د | 700,717) | | (323,000) | <u></u> | 05,707 |

| Phase III | | | | | | | |
|-----------|-------------------|------|-----------|----|------------|--|--|
| | Per | | Per | | OUCC | | |
| P | etitioner | 0 | UCC | M | ore (Less) | | |
| | | | | | | | |
| \$ | - | \$ | - | \$ | - | | |
| | _ | | | | - | | |
| | _ | | | | - | | |
| | - | | • | | - | | |
| | - ' | | = | | - | | |
| | | | - | | - | | |
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| | | | <u> </u> | | | | |
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| | - | | - | | - | | |
| | • | | - | | | | |
| | - | | - | | - | | |
| | - | | - | | - | | |
| | - | | _ | | _ | | |
| | - | | - | | - | | |
| | - | | - | | - | | |
| | - | | - | | - | | |
| | - | | - | | - | | |
| | - | | - | | - | | |
| | | | | | | | |
| | 616,122 | | 616,122 | | - | | |
| | | | | | | | |
| | 200.024 | | 264,939 | | (25,095) | | |
| | 290,034 22,340 | | 204,939 | | (23,093) | | |
| | 22,340 | | 22,220 | | (114 | | |
| | 928,496 | _ | 903,287 | | (25,209 | | |
| \$ | (928,496) | \$ (| (903,287) | \$ | 25,209 | | |

COMPARATIVE BALANCE SHEET

| · | As of May 31, | A | As of December 31, | | |
|-------------------------------------|----------------|----------------|--------------------|---------------|--|
| <u>ASSETS</u> | 2006 | 2005 | 2004 | 2003 | |
| Utility Plant: | | | | | |
| Utility Plant in Service | \$ 103,115,003 | \$ 102,148,892 | \$ 95,025,311 | \$ 91,792,426 | |
| Land and Improvements to Land | 387,100 | 387,100 | 387,100 | 387,100 | |
| Construction Work in Progress | 7,822,782 | 6,877,921 | 5,996,293 | 1,943,086 | |
| Less: Accumulated Depreciation | (37,169,626) | | (34,953,142) | (33,465,307) | |
| Net Utility Plant in Service | 74,155,259 | 73,017,507 | 66,455,562 | 60,657,305 | |
| Restricted Assets: | | | | | |
| Bond and Interest | 1,238,689 | 1,845,756 | 1,869,850 | 1,032,066 | |
| Debt Service Reserve | 39,426 | 39,426 | 1,134,006 | 1,134,006 | |
| Construction Fund Cash | 10,412,000 | 11,378,000 | 17,922,289 | - | |
| Cash with Fiscal Agent | 93,637 | 502,674 | 116,637 | - | |
| Customer Deposits | 996,290 | 985,713 | 967,678 | 942,420 | |
| Service Charge due Petitioners | 1,500 | 1,500 | 1,500 | 1,500 | |
| Deposits on New Extension Estimates | 21,055 | 21,055 | 21,055 | 21,055 | |
| Retainage Cash | 5,304 | 5,304 | 349,440 | 49,823 | |
| Interest Receivable | 49,446 | 29,330 | 55,110 | - | |
| Total Restricted Assets | 12,857,347 | 14,808,758 | 22,437,565 | 3,180,870 | |
| Current Assets: | | | | | |
| Operating Cash | 3,273,336 | 3,787,404 | 3,385,725 | 1,238,823 | |
| Accounts Receivable | 869,829 | 939,044 | 916,523 | 799,134 | |
| Interfund Receivable | 493,679 | 490,585 | 313,261 | 267,622 | |
| Interest Receivable | 25,996 | 836 | 1,878 | 1,034 | |
| Other Receivable | 37,525 | 37,514 | - | - | |
| Advances for Bad Checks | 214 | 3,448 | 6,570 | 5,008 | |
| Prepaid Insurance | 427 | 67,909 | 66,389 | 56,984 | |
| Other Current Assets | <u>-</u> | - | <u></u> | - | |
| Total Current Assets | 4,701,006 | 5,326,740 | 4,690,346 | 2,368,605 | |
| Deferred Debits | | | | • | |
| Bond Issuance Costs, net | 682,415 | 701,618 | 647,338 | 172,304 | |
| Other Deferred Debits | 177,754 | 222,813 | 366,579 | 472,271 | |
| Total Deferred Debits | 860,169 | 924,431 | 1,013,917 | 644,575 | |
| Total Assets | \$ 92,573,781 | \$ 94,077,436 | \$ 94,597,390 | \$ 66,851,355 | |

COMPARATIVE BALANCE SHEET

| | As of May 31, | | As of December 31, | | | |
|---|---------------|------------|--------------------|----|------------|---------------|
| <u>LIABILITIES</u> | | 2006 | 2005 | | 2004 | 2003 |
| Equity | \$ | 36,313,818 | \$ 36,485,552 | \$ | 35,258,439 | \$ 34,923,353 |
| Contributions in Aid of Construction | | 20,504,914 | 19,888,930 | | 19,065,249 | 18,266,320 |
| Long-term Debt | | | | | | |
| Bonds Payable | | 31,990,000 | 33,165,000 | | 34,940,000 | 10,640,000 |
| Unamortized Bond Premium | | 4,292 | 4,391 | | 5,126 | 2,821 |
| Deferred Loss on Early Retirement of Debt | | (118,947) | (123,630) | | · - | - |
| Total Long-term Debt | | 31,875,345 | 33,045,761 | | 34,945,126 | 10,642,821 |
| Current Liabilities | | | | | | |
| Accounts Payable | | 687,347 | 750,697 | | 115,036 | 705,573 |
| Taxes Payable | | 78,406 | 53,646 | | 51,469 | 43,309 |
| Accrued Payroll | | 163,693 | 150,779 | | 170,150 | 116,528 |
| Compensated Absences | | 97,141 | 97,141 | | 70,679 | 75,626 |
| Contracts Payable | | - | 432,317 | | 1,782,443 | 218,322 |
| Retainage Payable | | 98,940 | 507,978 | | 466,077 | 49,823 |
| Restricted Accounts: | | | | | | |
| Customer Deposits Payable | | 996,290 | 985,713 | | 967,678 | 942,420 |
| Accrued Interest | | 560,332 | 686,367 | | 602,489 | 284,705 |
| Deposit on New Extension Estimates | | 21,055 | 21,055 | | 21,055 | 21,055 |
| Service Charge due Petitioners | | 1,500 | 1,500 | | 1,500 | 1,500 |
| Bonds Payable | | 1,175,000 | 970,000 | | 1,080,000 | 560,000 |
| Other Current Liabilities | - | 3,879,704 | 4,657,193 | | 5,328,576 | 3,018,861 |
| Total Liabilities | | 92,573,781 | \$ 94,077,436 | | 94,597,390 | \$ 66,851,355 |

COMPARATIVE INCOME STATEMENT For the Twelve Months Ended

| | May 31, | | December 31, | |
|---|--------------|--------------|--------------|--------------|
| | 2006 | 2005 | 2004 | 2003 |
| Operating Revenues | | | | |
| Residential Water Sales | \$ 6,822,970 | \$ 6,907,979 | \$ 6,739,907 | \$ 5,924,316 |
| Commercial and Industrial Water Sales | 4,409,600 | 4,356,957 | 4,236,811 | 3,744,764 |
| Sales for Resale | 488,092 | 480,623 | 555,702 | 438,441 |
| Fire Protection | 1,496,092 | 1,493,624 | 1,455,260 | 1,264,609 |
| Penalties | 107,638 | 106,958 | 107,598 | 100,998 |
| Other | 304,316 | 304,254 | 203,568 | 193,561 |
| Sewer Utility Portion of General Expenses | 2,242,587 | 2,225,868 | 1,625,100 | 1,551,761 |
| Total Operating Revenues | 15,871,295 | 15,876,263 | 14,923,946 | 13,218,450 |
| Operating Expenses | | | | |
| Salaries and Wages | 3,388,725 | 3,314,261 | 3,227,164 | 3,135,213 |
| Employee Benefits | 1,198,938 | 1,320,517 | 1,070,842 | 1,035,894 |
| Purchased Water | - | - | - | - |
| Purchased Power | - | - | - | - |
| Chemicals | - | - | - | - |
| Materials and Supplies | 39,268 | 52,631 | 21,607 | 19,870 |
| Management Fee | 4,071,975 | 5,540,711 | 6,082,317 | 5,810,642 |
| Contractual Services | 2,259,648 | 671,844 | 356,125 | 352,451 |
| Transportation Expense | - | 7,181 | 5,154 | 4,753 |
| Insurance | 295,909 | 294,522 | 281,217 | 244,898 |
| Bad Debt Expense | 54,452 | 54,512 | 47,779 | 32,778 |
| Rate Case Expense | 57,192 | - | <u></u> | - |
| Miscellaneous Expense | 210,647 | 75,739 | | |
| Total O&M Expense | 11,576,754 | 11,331,918 | 11,092,205 | 10,636,499 |
| Depreciation Expense | 1,968,881 | 1,978,047 | 1,868,375 | 2,000,285 |
| Taxes Other than Income | 992,040 | 977,052 | 921,170 | 882,818 |
| Total Operating Expenses | 14,537,675 | 14,287,017 | 13,881,750 | 13,519,602 |
| Net Of Net Operating Income | 1,333,620 | 1,589,246 | 1,042,196 | (301,152) |
| Other Income (Expense) | | | | |
| Interest Income | 225,705 | 198,472 | 70,655 | 63,748 |
| Gain (Loss) on Sale of Assets | - | - | - | - |
| Other Income | 60,192 | 47,079 | 52,865 | 182,059 |
| Interest Expense | (346,747) | (517,648) | (539,493) | (570,060) |
| Amortization Expense | (182,344) | (195,785) | (293,665) | (310,093) |
| Other Expense | (46,679) | (32,547) | (27,155) | (43,832) |
| Total Other Income (Expense) | (289,873) | (500,429) | (736,793) | (678,178) |
| Net Income | \$ 1,043,747 | \$ 1,088,817 | \$ 305,403 | \$ (979,330) |

Pro-forma Net Operating Income Statement

| | Year Ended 5/31/2006 | Adjustments | Sch Ref | Pro-forma Present Rates | Adjustments | Sch Ref | Phase I Pro-Forma Proposed Rates |
|---|----------------------------|----------------|-------------|-------------------------------|--------------|------------|---|
| Operating Revenues | | | | | | | |
| Residential Water Sales | \$ 6,822,970 | \$ 30,761 | 5 -1 | \$ 6,853,731 | \$ 1,039,716 | 1 | \$ 7,893,447 |
| Commercial and Industrial Water Sales | 4,409,600 | 17,902 | 5-2 | 4,427,502 | 671,652 | 1 | 5,099,154 |
| Sales for Resale | 488,092 | | | 488,092 | 74,044 | 1 | 562,136 |
| Fire Protection | 1,496,092 | 18,317 | 5-3 | 1,514,409 | 229,736 | 1 | 1,744,145 |
| Penalties | 107,638 | | | 107,638 | | | 107,638 |
| Other | 304,316 | 37,387 | 5-4 | 341,703 | | | 341,703 |
| Sewer Utility Portion of General Expenses | 2,242,587 | 130,046 | 5-5 | 2,372,633 | | | 2,372,633 |
| Total Operating Revenues | 15,871,295 | 234,413 | | 16,105,708 | 2,015,148 | | 18,120,856 |
| O&M Expense | 11,576,754 | | | 12,850,272 | | | 12,850,272 |
| Salaries & Wages | | 266,966 | 6-1 | | | | |
| PERF | | 48,499 | 6-3 | | | | |
| Health & Life Insurance | | 102,090 | 6-4 | | | | |
| Workman's Comp Insurance | | 3,313 | 6-5 | | | | |
| Teamster's Scholarship Fund | | (114) | 6-6 | | | | |
| Maintenance | | 250,507 | 6-7 | | | | |
| Non-recurring Expenses | | (316,499) | 6-8 | | | | |
| Contractual Services | | 938,694 | 6-9 | | | | |
| Liability Insurance | | 17,305 | 6-10 | | | | |
| IDEM Fee | | (36,237) | 6-11 | | | | |
| Property Tax | | (1,006) | 6-15 | | | | |
| Depreciation Expense | 1,968,881 | 93,419 | 6-12 | 2,062,300 | | | 2,062,300 |
| Taxes Other than Income | | | | | | | - |
| Payroll Taxes | 259,012 | 24,900 | 6-2 | 283,912 | | | 283,912 |
| PILT | 551,794 | (37,386) | 6-13 | 514,408 | | | 514.408 |
| Utility Receipts Tax | 181,234 | 905 | 6-14 | 182,139 | 27,175 | 6-14 | 209,314 |
| Total Operating Expenses | 14,537,675 | 1,355,355 | | 15,893,030 | 27,175 | | 15,920,206 |
| Net Operating Income | \$ 1,333,620 | \$ (1,120,942) | | \$ 212,678 | \$ 1,987,973 | | \$ 2,200,650 |

Pro-forma Net Operating Income Statement

| | Phase I Pro-Forma Proposed Rates | Adjustments | Sch Ref | Phase II <i>Pro-forma</i> Proposed Rates | Adjustments | Sch Ref | Phase III Pro-Forma Proposed Rates |
|--|---|--------------|------------|---|-------------|------------|---|
| Operating Revenues | | _ | | | _ | | |
| Residential Water Sales | \$ 7,893,447 | \$ 1,258,497 | 1 | \$ 9,151,944 | \$ 850,357 | 1 | \$ 10,002,301 |
| Commercial and Industrial Water Sales | 5,099,154 | 812,989 | 1 | 5,912,143 | 549,327 | 1 | 6,461,470 |
| Sales for Resale | 562,136 | 89,625 | 1 | 651,761 | 60,558 | 1 | 712,319 |
| Fire Protection | 1,744,145 | 278,080 | 1 | 2,022,225 | 187,895 | 1 | 2,210,120 |
| Penalties | 107,638 | | | 107,638 | | | 107,638 |
| Other | 341,703 | | | 341,703 | | | 341,703 |
| Sewer Utility Portion of General Expenses | 2,372,633 | | | 2,372,633 | | | 2,372,633 |
| Total Operating Revenues | 18,120,856 | 2,439,191 | | 20,560,047 | 1,648,137 | | 22,208,184 |
| O&M Expense Salaries & Wages PERF Health & Life Insurance Workman's Comp Insurance Teamster's Scholarship Fund Maintenance Non-recurring Expenses Contractual Services Liability Insurance IDEM Fee Property Taxes | 12,850,272 | | | 12,850,272 | | | 12,850,272 |
| Depreciation Expense | 2,062,300 | 364,696 | 6-12 | 2,426,996 | 616,122 | 6-12 | 3,043,118 |
| Taxes Other than Income | | | | | | | - |
| Payroll Taxes | 283,912 | | | 283,912 | | | 283,912 |
| PILT | 514,408 | 125,418 | 6-13 | 639,826 | 264,939 | 6-13 | 904,765 |
| Utility Receipts Tax | 209,314 | 32,894 | 6-14 | 242,208 | 22,226 | 6-14 | 264,434 |
| Total Operating Expenses | 15,920,206 | 523,008 | | 16,443,214 | 903,287 | | 17,346,501 |
| Net Operating Income | \$ 2,200,650 | \$ 1,916,183 | | \$ 4,116,833 | \$ 744,850 | | \$ 4,861,683 |

Revenue Adjustments

(1) Residential Normalization

To normalize residential customer growth within the test year.

| | Billings | Growth | # of Bills | Additional Bills | Consumption (000's) | | Sales |
|------------------|---------------------------|------------|------------|---------------------|---------------------|----------|-----------|
| | | | | | | | |
| June 200 | 5 57,124 | | | | 311,191 | | |
| July | 57,256 | 132 | 1 | 132 | 366,140 | | |
| August | 57,291 | 35 | 2 | 70 | 339,524 | | |
| September | 57,381 | 90 | 3 | 270 | 313,343 | | |
| October | 57,376 | (5) | 4 | (20) | 286,617 | | |
| November | 57,345 | (31) | 5 | (155) | 275,483 | | |
| December | 57,237 | (108) | 6 | (648) | 258,608 | | |
| January 200 | 6 57,284 | 47 | 7 | 329 | 277,450 | | |
| February | 57,182 | (102) | 8 | (816) | 226,152 | | |
| March | 57,202 | 20 | 9 | 180 | 234,637 | | |
| April | 57,348 | 146 | 10 | 1,460 | 232,655 | | |
| May | 57,557 | 209 | 11 | 2,299 | 257,637 | | |
| • | 687,583 | 433 | | 3,101 | 3,379,437 | \$ | 6,822,970 |
| Assess Dill (C | alaa / # a f Coost | | | | | C | 0.02 |
| Average Bill (S | | omers) | | | | \$ | 9.92 |
| Additional Resid | dential Billings | | | | | | 3,101 |
| | | Adjustment | - Increase | | | \$ | 30,761 |

Revenue Adjustments

(2) Commercial Normalization

To normalize commercial customer growth within the test year.

| | _ | Billings | Growth | # of Bills | Additional Bills | Average Bill | Adjustment |
|-----------|------|----------|--------------|------------|------------------|-----------------|------------|
| June | 2005 | 2,137 | | | | | |
| July | | 2,151 | 14 | 1 | 14 | 102.30 | 1,432 |
| August | | 2,159 | 8 | 2 | 16 | 102.30 | 1,637 |
| September | | 2,158 | (1) | 3 | (3) | 102.30 | (307) |
| October | | 2,174 | 16 | 4 | 64 | 102.30 | 6,547 |
| November | | 2,177 | 3 | 5 | 15 | 102.30 | 1,535 |
| December | | 2,176 | (1) | 6 | (6) | 102.30 | (614) |
| January | 2006 | 2,168 | (8) | 7 | (56) | 102.30 | (5,729) |
| February | | 2,168 | - | 8 | - | 102.30 | · - |
| March | | 2,174 | 6 | 9 | 54 | 102.30 | 5,524 |
| April | | 2,174 | - | 10 | - | 102.30 | - |
| May | | 2,181 | 7 | . 11 | 77 | 102.30 | 7,877 |
| | - | 25,997 | 44 | | 175 | | \$ 17,902 |
| | | | Adjustment - | Increase | | | \$ 17,902 |

Revenue Adjustments

(3) <u>Fire Protection Normalization</u>

To normalize customer growth within the test year for fire protection revenues

| | | | | Monthly | Annual | |
|--------------------------|-------------|---------|----------|---------|------------------|--------------|
| Inside City Limits: | # of Meters | | urcharge | Revenue | Revenue | |
| 5/8 inch meter | 39,589 | \$ | 1.23 | 48,694 | 584,328 | |
| 1 inch meter | 1,227 | \$ | 1.71 | 2,098 | 25,176 | |
| 1 1/2 inch meter | 67 | \$ | 2.19 | 147 | 1,764 | |
| 2 inch meter | 1,062 | \$ | 3.53 | 3,749 | 44,988 | |
| 3 inch meter | 88 | \$ | 13.37 | 1,177 | 14,124 | |
| 4 inch meter | 212 | \$ | 17.06 | 3,617 | 43,404 | |
| 6 inch meter | 61 | \$ | 25.57 | 1,560 | 18,720 | |
| | 42,306 | | | 61,042 | 732,504 | |
| Less: Test Year Revenues | | | | | <u>(744,111)</u> | |
| | | | | | | (11,607) |
| Inside City Limits: | | | | | | |
| 5/8 inch meter | 16160 | \$ | 2.47 | 39,915 | 478,980 | |
| 1 inch meter | 1007 | \$ | 3.36 | 3,384 | 40,608 | |
| 1 1/2 inch meter | 3 | \$ | 4.50 | 14 | 168 | |
| 2 inch meter | 340 | \$ | 6.75 | 2,295 | 27,540 | |
| 3 inch meter | 11 | \$ | 26.97 | 297 | 3,564 | |
| 4 inch meter | 55 | \$ | 34.84 | 1,916 | 22,992 | |
| 6 inch meter | 27 | \$ | 51.69 | 1,396 | 16,752 | |
| | 17,603 | | | 49,217 | 590,604 | |
| Less: Test Year Revenues | | | | | (580,903) | |
| | | | | | | 9,701 |
| Flat Rate Sprinklers: | | | | | | |
| I inch meter | 4 | \$ | 1.92 | | 8 | |
| 2 inch meter | 13 | \$ | 10.64 | | 138 | |
| 3 inch meter | 1 | \$ | 29.43 | | 29 | |
| 4 inch meter | 130 | \$ | 60.29 | | 7,838 | |
| 6 inch meter | 368 | \$ | 166.06 | | 61,110 | |
| 8 inch meter | 208 | \$ | 340.96 | | 70,920 | |
| 10 inch meter | 8 | \$ | 595.53 | | 4,764 | |
| 12 inch meter | 31 | \$ | 939.49 | | 29,124_ | |
| | 763 | | | | 173,931 | |
| Less: Test Year Revenues | | | | | (153,708) | |
| | | | | | | 20,223 |
| | Adjustmen | t - Inc | crease | | | \$ 18,317 |

OUCC Schedule 5 Page 4 of 4

CITY OF EVANSVILLE MUNICIPAL WATER DEPARTMENT CAUSE NUMBER 43190

Revenue Adjustments

(4)

County Reimbursement of GIS Expenses

To adjust the test year for the reimbursement from the County for its pro forma portion of shared GIS expenses per utility's proposed budget.

2007 Budget GIS Expenses \$ 1,666,289

Times: County's share of expenses 16.292%

Pro forma reimbursement from County
Less: Test Year Reimbursement (234,083)

Adjustment - Increase

\$ 37,387

(5)

Reimbursement of Joint Costs

To adjust the test year for the reimbursement from the sewer utility for its pro forma portion of shared billing and general expenses per Utility's proposed budget.

2007 Budgeted Joint Expenses\$ 4,745,265Times: Sewer's share of expenses50.00%Pro forma reimbursement from County2,372,633Less: Test Year Reimbursement(2,242,587)

Adjustment - Increase

\$ 130,046_

Expense Adjustments

(1)

Salaries and Wages

To adjust test year expense to include 3% salary increase, one new employee, and the minimum union employees per union contract.

| amon empreyees per amon commuter | | | | |
|---|--------------|--------------|----------|---------|
| 2007 Salary Increase: | | | | |
| Pro forma Salaries and Wages | | \$ 3,655,691 | | |
| Less: Test Year Salaries and Wages | | (3,388,725) | _ | |
| Adjustment - Increase | | | \$ | 266,966 |
| (2) FICA | | | | |
| To adjust test year FICA expense to reflect pro forma payroll expense. | | | | |
| Pro forma Salaries and Wages | 3,655,691 | | | |
| Times: FICA rate | 7.65% | | | |
| Pro forma FICA Expense | | 279,660 | | |
| Less; Test Year FICA Expense | | (254,760) | _ | |
| Adjustment - Increase | | | \$ | 24,900 |
| (3) | | | | |
| PERF To adjust test year PERF expense to reflect pro forma payroll expense. | | | | |
| | | | | |
| Pro forma Salaries and Wages | \$ 3,655,691 | | | |
| Less: Board Member Salaries not subject to PERF | (19,675) | | | |
| Pro forma Salaries and Wages subject to PERF | 3,636,016 | | | |
| Times: PERF Rate | 9.25% | | | |
| Pro forma PERF Expense | | 336,331 | | |
| Les: Test Year PERF Expense | | (287,832) | <u>)</u> | |
| Adjustment - Increase | | | \$ | 48,499 |

Expense Adjustments

(4) Health and Life Insurance

To adjust test year expense to reflect pro forma health and life insurance expense per 2007 City Budget.

| | 2007 City Budget | | | | | | |
|-------------------------|------------------|--------|-----------|--|--|--|--|
| Department | Health | Life | Total | | | | |
| Processing & Treatment | 155,796 | 1,625 | 157,421 | | | | |
| Distribution | 323,577 | 3,375 | 326,952 | | | | |
| Meter Service | 359,530 | 3,750 | 363,280 | | | | |
| Planning | 83,890 | 875 | 84,765 | | | | |
| Administration | 71,906 | 750 | 72,656 | | | | |
| Total Annual Premiums | 994,699 | 10,375 | 1,005,074 | | | | |
| Less: Test Year Expense | | | (902,984) | | | | |

Adjustment - Increase

102,090

(5)

Workman's Compensation Insurance

To adjust test year expense to reflect pro forma workman's compensation insurance expense per 2007 City Budget

| | 2007 City | |
|-------------------------|-----------|----|
| Department | Budget | |
| Processing & Treatment | 7,620 | |
| Distribution | 16,501 | |
| Meter Service | 17,030 | |
| Planning | 4,589 | |
| Accounting & General | 344 | |
| Total Annual Premiums | 46,084 | 1 |
| Less: Test Year Expense | (42,771 | 1) |

Adjustment - Increase

\$ 3,313

Expense Adjustments

(6)

Teamster's Scholarship Fund

To adjust test year expense to reflect *pro forma* teamster's scholarship fund expense per the teamster's contract and Utility Budget.

| | onation per pay period \$ | 2.00 | | | |
|---|--|---------------------------|----------------------|---------------------|---------------|
| Times: Number of P | | 52 | | | |
| Annual Scholarship | 104 (a |) | | | |
| Total Employees | | | | | |
| Less: Non-Union A | dmin Employees | (6) | | | |
| Total Union Employ | ees | | (b |) | |
| Pro forma annual sch Less: Test Year Exp | nolarship fund expense (a) x (b) ense | | _ | \$ 8,008 (8,122) | |
| | Adjustment - Dec | rease | | | (114) |
| * | | (7) | | | |
| To adjust test year expense to re | | Maintenance nance expense | per utility manageme | ent. | |
| | | | , | | |
| Filter Media Replacement | \$7,000 x 22 filters over 3 years | S | | 51,333 | |
| Reservoir Sealing Tank Maintenance | \$14,600 every 10 years | | | 1,460 | |
| Cleaning and Inspection | \$34,000 for 7 tanks; 2 per year | <u>,</u> | | 9,714 | |
| Tank Painting | \$34,000 for 7 talks, 2 per year | | | 7,714 | |
| Lincoln Ave. | \$235,000 every 15 years 56 | 00,000 gal. | 15,667 | | |
| Volkman | \$750,000 every 15 years 1,50 | 00,000 gal. | 50,000 | | |
| Darmstadt | \$465,000 every 15 years 1,00 | 00,000 gal. | 31,000 | | |
| Killian Reservoir | \$455,000 every 15 years 4,00 | 00,000 gal. | 30,333 | | |
| Upper Mt. Vernon | \$250,000 every 15 years 50 | 00,000 gal. | 16,667 | | |
| Grim Road | \$200,000 every 15 years 5 | 00,000 gal. | 13,333 | | |
| New Tank | \$465,000 every 15 years 1,0 | 00,000 gal. | _ 31,000_ | | |
| | | | | 188,000 | |
| Pro forma periodic | maintenance | | | 250,507 | |
| Less: Test Year mai | ntenance expense | | - | <u> </u> | |
| | Adjustment - Inci | rease | | | \$ 250,507 |

Expense Adjustments

(8)

Non-Recurring Items

To eliminate expenditures that are considered non-recurring in nature.

| 07/2005 | Hinderliter Environmental | Removal of fuel tanks | (11,035) | | |
|----------|---------------------------|-----------------------------------|---------------|-----------|--------------|
| 02/2006 | Hinderliter Environmental | Removal of fuel tanks | (4,108) | | |
| 02/2006 | Hinderliter Environmental | Removal of fuel tanks | (2,232) | | |
| 02/2006 | Hinderliter Environmental | Removal of fuel tanks | (1,248) | | |
| 02/2006 | Hinderliter Environmental | Removal of fuel tanks | (886) | | |
| 03/2006 | Hinderliter Environmental | Removal of fuel tanks | (1,248) | | |
| | | | _ | (20,757) | |
| 03/2006 | R.W. Armstrong | EA2 contract review | (5,020) | | |
| 04/2006 | R.W. Armstrong | EA2 contract review | (13,564) | | |
| 05/2006 | R.W. Armstrong | EA2 contract review | (6,516) | | |
| | | | | (25,100) | |
| 11/2005 | City of Evansville | Legal Settlement | | (210,000) | |
| Various | Annette Wright | Contract Employee | | (898) | |
| 02/2006 | CSX Transportation | Encroachment inventory fee | | (500) | |
| 06/2005 | CSX Transportation | Annual Fee paid twice during test | year | (6,380) | |
| 06/2005 | ESRI | Annual license fee paid twice dur | ing test year | (18,112) | |
| 08/2005 | NASCIO | Annual dues paid twice during tes | st year | (500) | |
| 03/2006 | Umbaugh | Rate Case | | (26,800) | |
| 0'4/2006 | Dave Hicks Auto Collision | Employee Vehicle Repairs | <u> </u> | (7,452) | |
| | | Adjustment - Decrease | | | \$ (316,499) |

(9)

Contractual Services

To adjust test year expense to reflect pro forma contractual services expense, per agreements and utility management.

(A) Pro forma Operations Management contract with American Water, Inc.

| Base Fe | e | 3,194,071 | |
|----------|---------------------------|-----------|-------------|
| Add: | Estimated Electric | 900,000 | |
| | Estimated Gas | 47,700 | |
| | Estimated Chemicals | 1,024,023 | |
| Less: | True-up of Chemical Costs | (330,000) | |
| Pro form | ma expense | | 4,835,794 |
| Less: T | est Year Expense | | (3,981,914) |

853,880

(B) Pro forma Reimbursement of Security System expenses to American Water

| Current Billings (monthly) | \$ 6,205 |
|----------------------------|-------------|
| Times: 12 months | x <u>12</u> |
| Pro forma Expense | 74,460 |
| Less: Test Year Expense | (62,053) |

12,407

Expense Adjustments

(9) Contractual Services, continued

| (C) | Pro forma operating and maintenance contract with Environm | ental N | Management (| Corporation | |
|--------------|--|---------|--------------|-------------|---------------|
| | Customer Service and Billing fees | \$ | 83,626 | | |
| | Utility Planning and Engineering Fees | | 55,131 | | |
| | Monthly Expense | | 138,757 | | |
| | Times: 12 months | | x_12_ | | |
| | | | | 1,665,084 | |
| | Times: Minimum CPI Adjustment | | _ | x 103% | |
| | | | | 1,715,037 | |
| | | | | (1,625,785) | |
| | | | | | 89,252 |
| (D) | Pro forma GIS contractual services with Mark Rolley Consulti | ng. | | | |
| | Current Billings (bi-weekly) | \$ | 12,500 | | |
| | Times: 26 weeks | | x 26 | | |
| | Pro forma Expense | | | 325,000 | |
| | Less: Test Year Expense | | _ | (324,372) | |
| (E) | Pro forma GIS internet contract with SBC | | | | 628 |
| (E) | Current Billings (monthly) | \$ | 2,082 | | |
| | Times: 12 months | Ψ | x 12 | | |
| | Pro forma Expense | | | 24,984 | |
| | Less: Test Year Expense | | | (19,388) | |
| | | | · - | | 5,596 |
| (F) | Pro forma Security Services contracts with Sonitrol and ESRI. | | | | |
| | Sonitrol Current Billings | \$ | 16,752 | | |
| | ESR1 Current Billings | | 17,825 | | |
| | Pro forma Expense | | | 34,577 | |
| | Less: Test Year Expense | | _ | (41,086) | |
| | | | | | (6,509) |
| (G) | Eliminate contractual services expense for contract employee (| Greg S | erver) | | (16,560) |
| | Adjustment - Increase | | | | \$ 938,694 |

Expense Adjustments

(10)

Liability Insurance

| Projected Annual Premium - Total City Times: Allocation Percentage Pro forma general liability and automobile insurance expense Less: Test Year Expense | \$ —– | 1,890,774 14.30% | \$ | 270,443 (253,138) | |
|---|-----------------|---------------------|-----|----------------------|----------------|
| Adjustment - Increase | | | | | \$ 17,305 |
| (11) IDEM Fee To adjust test year expense to reflect pro forma IDEM fee expense. During the fee payments were made. | ne test | year, two ann | ual | | |
| Number of customer connections at 5/31/06 | | 59,774 | | | |
| Times: Annual fee per connection | _\$_ | 0.95 | | | |
| Pro forma Idem fee expense Less: Test Year IDEM fee expense | | | | 56,785 (93,022) | |
| Adjustment - Decrease | | | | | \$ (36,237) |

Expense Adjustments

(12) Depreciation Expense

To adjust test year expense to reflect pro forma depreciaiton expense.

| | Phase I | Phase II | Phase III | | |
|--------------------------------------|-------------|-------------|-------------|--|--|
| Utility Plant In Service at 5/31/06 | 103,502,103 | 103,502,103 | 103,502,103 | | |
| Add: CWIP at 5/31/06 | - | 7,822,782 | 7,822,782 | | |
| Balance of 2004 Bond Proceeds | - | 10,412,000 | 10,412,000 | | |
| Proposed Capital Improvement Plan | - | - | 30,806,100 | | |
| Less: Land | (387,100) | _(387,100) | (387,100) | | |
| Depreciable Utility Plant in Service | 103,115,003 | 121,349,785 | 152,155,885 | | |
| Times: Composite Depreciation Rate | 2.00% | 2.00% | 2.00% | | |
| Pro forma depreciation expense | 2,062,300 | 2,426,996 | 3,043,118 | | |
| Less: Test Year Depreciation Expense | (1,968,881) | (2,062,300) | (2,426,996) | | |
| Adjustment - Increase (Decrease) | \$ 93,419 | \$ 364,696 | \$ 616,122 | | |

(13) PILT

To adjust test year expense to reflect pro forma allowance for payments in lieu of taxes.

| | | Phase I | | Phase II |] | Phase III |
|--|----------------------------------|-------------------|------|--------------|------|--------------|
| Capital assets in service at 5/31/06 | | \$ 103,502,097 | \$ 1 | 03,502,097 | \$ 1 | 03,502,097 |
| Add: | CWIP at 5/31/06 | | | 7,822,782 | | 7,822,782 |
| | Balance of 2004 Bond Proceeds | | | 10,412,000 | | 10,412,000 |
| | Proposed Projects | | | | | 30,806,100 |
| Less: | Accumulated Depreciation | (37,169,626) | (| (39,231,926) | (| (41,658,922) |
| Estimated Net Assessed Value | | 66,332,471 | | 82,504,953 | 1 | 10,884,057 |
| Less: Estimated capital assets not within corporate limits (25%) | | (16,583,118) | (| (20,626,238) | (| (23,382,614) |
| Capital assets subject to PILT | | 49,749,353 | | 61,878,715 | | 87,501,443 |
| Times: Corporate tax rate per \$100 (net of PTRC - 12.3%) | | 1.034 | | 1.034 | | 1.034 |
| Pro forma PILT | | 514,408 | | 639,826 | | 904,765 |
| Less: Test Year PILT | | (551,794) | | (514,408) | | (639,826) |
| | | | | | | |
| | Adjustment - Increase (Decrease) | \$ (37,386) | \$ | 125,418 | \$ | 264,939 |

Expense Adjustments

(14) Utility Receipts Tax

To provide for utility receipts tax due on test year gross receipts.

| | | Phase I | | | | | | | |
|--|------------------------------------|---------------|-------------|----------------|-------------|----------|-------------|----|-------------|
| | • | Pro Forma | | rma Pro Forma | | | | | |
| | • | Present Rates | | Proposed Rates | | Phase II | | | Phase III |
| Pro Forma Present Rates gross receipts | | \$ | 16,105,708 | \$ | 18,120,856 | \$ | 20,560,047 | \$ | 22,208,184 |
| Less: | Exempt receipts Sales for Resale | | (488,092) | | (562,136) | | (651,761) | | (712,319) |
| | County Reimbursement of GIS Costs | | (234,083) | | (234,083) | | (234,083) | | (234,083) |
| | Sewer Reimbursement of Joint Costs | | (2,372,633) | | (2,372,633) | | (2,372,633) | | (2,372,633) |
| | Annual taxpayer deduction per lDR | _ | (1,000) | | (1,000) | | (1,000) | | (1,000) |
| | Total taxable receipts | | 13,009,900 | | 14,951,004 | | 17,300,570 | | 18,888,149 |
| | Utility receipts tax Rate | | 1.40% | | 1.40% | | 1.40% | _ | 1.40% |
| Pro form | aa Utility Receipts Tax Expense | | 182,139 | | 209,314 | | 242,208 | | 264,434 |
| Less Tes | t Year Expense | | (181,234) | | (182,139) | | (209,314) | | (242,208) |
| Adjustm | nent - Increase | \$_ | 905 | _\$_ | 27,175 | \$ | 32,894 | \$ | 22,226 |

(15)

Property Tax Expense

To eliminate property tax expense paid during the test year since Petitioner is exempt from property tax payments.

Property Tax paid during test year

\$ (1,006)

OUCC Schedule 7 Page 1 of 1

CITY OF EVANSVILLE MUNICIPAL WATER DEPARTMENT CAUSE NUMBER 43190

Working Capital

| Operation | \$ 12,850,272 | |
|-----------|------------------------------------|-------------|
| Less: | Purchased Water | - |
| | Purchased Power | - |
| | Rate Case Expense Amortization | |
| Adjusted | Operation & Maintenance Expense | 12,850,272 |
| Times: | 45 Day Factor | 0.125 |
| Working (| Capital Revenue Requirement | 1,606,284 |
| Less: | Cash on Hand | 3,273,336 |
| Net Work | ing Capital Revenue Requirement | · - |
| Divide by | : Amortization Period (Years) | 3 |
| Annual W | orking Capital Revenue Requirement | <u>\$ -</u> |

CITY OF EVANSVILLE MUNICIPAL WATER DEPARTMENT CAUSE NUMBER 43190

Debt Service

| | Phase I 2008 | Phase II 2009 | Phase III 5-yr Avg. | |
|--|----------------------------|-------------------------------------|--------------------------------------|--|
| 2004 Bonds 2005 Bonds Proposed Bonds | 1,540,156.00 972,078.00 | \$ 1,532,769 975928 1,919,720 | \$ 1,528,380 987,997 2,656,890 | |
| | 2,512,234.00 | \$ 4,428,417 | \$ 5,173,267 | |
| | 2004 Bonds | 2005 Bonds | Proposed Bonds | |
| 2010 | 1,534,376 | 982,203 | 2,654,721 | |
| 2011 | 1,528,894 | 987,123 | 2,654,955 | |
| 2012 | 1,527,144 | 985,263 | 2,663,303 | |
| 2013 | 1,523,144 | 990,923 | 2,659,020 | |
| 2014 | 1,528,344 | 994,473 | 2,652,455 | |
| | 7,641,902 | 4,939,985 | 13,284,454 | |
| Divide by 5 years | 5 | 5 | 5 | |
| Average Annual Debt Service | \$ 1,528,380 | \$ 987,997 | \$ 2,656,890 | |

CITY OF EVANSVILLE MUNICIPAL WATER DEPARTMENT CAUSE NUMBER 43190

Debt Service

| | 2004 | 2005 | Proposed | Total Debt |
|----------|--------------|------------|--------------|--------------|
| | Bonds | Bonds | Bonds | Service |
| 07.01.07 | 510,378.14 | 143813.75 | | |
| 01.01.08 | 1,030,378.14 | 828813.75 | | 2,513,383.78 |
| 07.01.08 | 502,578.14 | 133538.75 | 959,860.25 | |
| 01.01.09 | 1,037,578.14 | 838538.75 | 959,860.25 | 4,431,954.28 |
| 07.01.09 | 493,884.39 | 122963.75 | 959,860.25 | |
| 01.01.10 | 1,038,884.39 | 852963.75 | 959,860.25 | 4,428,416.78 |
| 07.01.10 | 484,688.21 | 111101.25 | 959,860.25 | |
| 01.01.11 | 1,049,688.21 | 871101.25 | 1,694,860.25 | 5,171,299.42 |
| 07.01.11 | 474,446.88 | 98561.25 | 942,477.50 | |
| 01.01.12 | 1,054,446.88 | 888561.25 | 1,712,477.50 | 5,170,971.26 |
| 07.01.12 | 463,571.88 | 85,131.25 | 924,151.50 | |
| 01.01.13 | 1,063,571.88 | 900,131.25 | 1,739,151.50 | 5,175,709.26 |
| 07.01.13 | 451,571.88 | 70,461.25 | 904,510.00 | |
| 01.01.14 | 1,071,571.88 | 920,461.25 | 1,754,510.00 | 5,173,086.26 |
| 07.01.14 | 439,171.88 | 54,736.25 | 883,727.50 | |
| 01.01.15 | 1,089,171.88 | 939,736.25 | 1,768,727.50 | 5,175,271.26 |
| 07.01.15 | 426,171.88 | 37,700.00 | 861,779.50 | |
| 01.01.16 | 1,096,171.88 | 957,700.00 | 1,791,779.50 | 5,171,302.76 |
| 07.01.16 | 412,771.88 | 19,300.00 | 838,529.50 | |
| 01.01.17 | 1,107,771.88 | 984,300.00 | 1,808,529.50 | 5,171,202.76 |
| 07.01.17 | 398,871.88 | | 813,988.50 | |
| 01.01.18 | 2,288,871.88 | | 1,673,988.50 | 5,175,720.76 |
| 07.01.18 | 361,071.88 | | 792,058.50 | |
| 01.01.19 | 2,341,071.88 | | 1,677,058.50 | 5,171,260.76 |
| 07.01.19 | 318,996.88 | | 769,314.00 | |
| 01.01.20 | 2,388,996.88 | | 1,694,314.00 | 5,171,621.76 |
| 07.01.20 | 272,421.88 | | 745,356.50 | |
| 01.01.21 | 2,442,421.88 | | 1,715,356.50 | 5,175,556.76 |
| 07.01.21 | 223,596.88 | | 720,088.00 | |
| 01.01.22 | 2,498,596.88 | | 1,730,088.00 | 5,172,369.76 |
| 07.01.22 | 172,409.38 | | 693,525.00 | |
| 01.01.23 | 2,557,409.38 | | 1,748,525.00 | 5,171,868.76 |
| 07.01.23 | 118,746.88 | | 665,620.25 | • • |
| 01.01.24 | 2,623,746.88 | | 1,765,620.25 | 5,173,734.26 |
| 07.01.24 | 60,818.75 | | 636,305.25 | • • |
| 01.01.25 | 2,690,818.75 | | 1,786,305.25 | 5,174,248.00 |

CITY OF EVANSVILLE MUNICIPAL WATER DEPARTMENT CAUSE NUMBER 43190

Debt Service

| | 2004 Bonds | 2005 Bonds | Proposed Bonds | Total Debt Service |
|----------|---------------|---------------|-------------------|-----------------------|
| 07.01.25 | | Donus | 605,485.25 | Scrvice |
| 01.01.26 | | | 4,570,485.25 | 5,175,970.50 |
| 07.01.26 | | | 498,826.75 | |
| 01.01.27 | | | 4,673,826.75 | 5,172,653.50 |
| 07.01.27 | | | 384,849.25 | |
| 01.01.28 | | | 4,789,849.26 | 5,174,698.51 |
| 07.01.28 | | | 263,932.00 | |
| 01.01.29 | | | 4,908,932.00 | 5,172,864.00 |
| 07.01.29 | | | 135,730.00 | |
| 01.01.30 | | | 5,035,730.00 | 5,171,460.00 |
| | 37,059,343.14 | 9,861,620.00 | 67,919,671.01 | 114,836,625.15 |

ROGER A. PETTIJOHN – PUBLIC'S EXHIBIT NO. 2

TESTIMONY OF ROGER A. PETTIJOHN CAUSE NO. 43190 <u>CITY OF EVANSVILLE</u> <u>MUNICIPAL WATER DEPARTMENT</u>

| 1 | | 1. <u>Introduction of OUCC Witness</u> |
|----|----|--|
| 2 | Q: | Please state your name and business address. |
| 3 | A: | My name is Roger A. Pettijohn and my business address is Indiana Government |
| 4 | | Center North, 100 North Senate Avenue, Room N501, Indianapolis, Indiana |
| 5 | | 46204. |
| 6 | Q: | By whom and in what capacity are you employed? |
| 7 | A: | I am employed by the Indiana Office of Utility Consumer Counselor (OUCC) as a |
| 8 | | Senior Utility Analyst for the Water/Wastewater Division. |
| 9 | Q: | What are the duties and responsibilities of your current position? |
| 10 | A: | As a Senior Analyst for the OUCC Water/Wastewater Division, I am responsible |
| 11 | ٠ | for evaluating the condition, operation, and project improvements proposed by |
| 12 | | investor owned, municipal, and not-for-profit water and sewer utilities. |
| 13 | Q: | What is your professional background and experience? |
| 14 | A: | After teaching several years for the Department of Defense Dependents Schools, I |
| 15 | | accepted an administrative position as Utility Director for the City of Elwood, |
| 16 | | Indiana in 1976. Subsequently, I assumed the responsibilities of operator in |
| 17 | | charge of the water and wastewater facilities. In 1980, I accepted a position as |
| | | |

Waterworks Superintendent for the City of Marion, Indiana. After taking early

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retirement from the City of Marion in 1995, I served as a project manager and salesman for a firm representing various manufacturing companies in the business of providing water and wastewater treatment equipment to municipalities and industry. I currently maintain a Class I Wastewater Treatment License, as well as Water Treatment System 3 and System 5 designations (WTS-3 and WTS-5) which are ground and surface water treatment plant certifications respectively, and a Distribution System Large (DS-L) license, all issued by the State of Indiana.

8 Q: Have you previously testified before the Commission?

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A:

9 A: Yes, both on behalf of utilities and as an analyst for the OUCC.

II. Preparation for and Purpose of Testimony

Q: What investigations have you performed in this Cause?

I recently toured Petitioner's treatment facilities with its General Manager, Mr. Harry Lawson. My main focus was on the proposed capital improvements in this Cause, but I also verified whether projects approved and funded in Petitioner's last rate case had been completed. I also reviewed Petitioner's case-in-chief, prepared questions for discovery, and participated in technical discussions with Petitioner and other OUCC staff.

¹ As discussed later in this testimony, all major capital improvement projects authorized in Petitioner's last rate case were completed. Some of the smaller projects are still underway. However, water storage tank refurbishments the OUCC expected Petitioner to complete as part of a regular maintenance schedule were not performed.

- 1 Q: What is the purpose of your Testimony?
- 2 A: I will be responding to the testimony of Mr. Harry Lawson and Mr. Chris Gale,
- P.E., who was retained by Petitioner to develop its "10-Year Master Plan."²
- 4 Specifically, I will be discussing Petitioner's past and proposed system
- 5 improvements.

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A:

III. Characteristics of Petitioner's Current Water Utility System

Q: What are Petitioner's system facility characteristics and demand?

Petitioner's Treatment Plant has a rated capacity of 54 million gallons per day (MGD), consisting of two (2) separate trains or treatment sections. Its sole source of supply is the Ohio River. Petitioner's 2005 Annual Utility Report to the IURC shows a combination of nine (9) elevated and ground storage vessels, with a combined capacity of 36 million gallons. The distribution network includes approximately 1,000 miles of main, more than 5,000 hydrants, and nine (9) booster stations. Petitioner serves approximately 62,000 residential and 2,300 industrial/commercial customers. Petitioner's average daily pumpage is approximately 28 MGD, with a 2004 peak day of 42 MGD.

Petitioner complies with recommended engineering standards of being able to meet a one (1) day demand even if its largest treatment unit or high lift pump is out-of-service. However, the 35 MGD firm capacity plant is not capable of

² A copy of the City of Evansville's "10 Year Master Plan" was provided by Petitioner in its Exhibit CG-1.

meeting peak demand if a 15 MGD-rated flocculation basin is out-of-service – a situation that will be addressed in Petitioner's proposed system improvements. Available water storage capacity (disregarding fire flow requirements) is adequate from a network perspective, but not necessarily at individual zonal levels. Petitioner also supplies wholesale water to Gibson Water (which serves the Toyota plant in Princeton), Elberfeld Water, American Water Company at Newburgh, and the German Township Water District.

IV. Capital Improvement Projects and Use of Funds From Last Rate Case

Q: What bond funding and conditions did the Commission authorize regarding system improvements in Petitioner's last rate case, Cause No. 42176?

The Commission authorized the issuance of waterworks revenue bonds not to exceed \$25,380,000 at 7% interest in order to fund certain capital improvement projects. Those projects were intended to improve service and reliability at the North Pressure Zone through improved pumping capacity and water main improvements. Further, under the Order in Cause No. 42176, Petitioner was to "renovate certain storage tanks, make upgrades to its treatment plant and implement a Supervisory Control and Data Acquisition ("SCADA") system."

Q: Has Petitioner fulfilled those requirements?

A:

19 A: Petitioner has completed all major capital improvement projects approved in Cause No. 42176 and continues to implement other minor system improvements authorized in that case, based on Petitioner's "10-Year Master Plan." The latest

"Annual Project Status Report for Year Ending 12/31/06," submitted by Petitioner as a condition of the bond funding approved in Cause No. 42176, showed a remaining balance of approximately \$7.5 million at the end of the 2006 (out of the \$25.38 million bond issuance authorized in that case). Completed projects from Cause No. 42176 include the following items -- all aimed at improving service reliability in the North Pressure Zone:

- 1) Replaced First Avenue and Weinbach booster stations (\$1.2 M)
- 2) 36" main extension on Second Avenue (\$3 M)

3) 36" main extension on Old State Road and a 30" extension on U.S. 41, (\$5.7 M)

A number of other projects authorized in Cause No. 42176 have already been completed. For example, Petitioner has already installed a chemical feed system, replaced the filter plant roof, and installed a SCADA system (although some degree of software refinement and incorporation of new equipment are still needed). The Petitioner is also close to completing its authorized replacement of high service pumping and flow metering equipment. (See RAP Attachment 1.)

OUCC Data Request Set No. 1, Q-44 issued in this case (Cause No. 43190) asked Petitioner to provide a tank maintenance history over the last ten (10) years along with appropriate renovation details. Petitioner provided a summary table detailing tank projects for seven (7) of its ten (10) tanks. However, the table shows that no significant work (e.g., pit welding, repair, or application of coating

³ However, as discussed later in this testimony, with additional capital projects completed during the first several months of 2007, the Bond Fund balance has been significantly reduced, with only \$120,000 (approx.) remaining, as of February 8, 2007.

systems) has been performed on any of Petitioner's water storage tanks since its last rate case, even though routine tank refurbishment activity was envisioned at that time. (See RAP Attachment 2.)

4 Q: Did you find any indication of why no significant tank maintenance was performed since Petitioner's last rate case?

A:

I noticed that Petitioner experienced significant cost over-runs on capital improvement projects authorized and funded in its last rate case. The cost over-runs were primarily due to increased steel and other material costs. Petitioner's Bond Fund cash balance report dated February 8, 2007, showed a remaining balance of only \$120,000 (approx.).⁴ That amount is not sufficient to cover the cost of painting or performing other significant refurbishments on Petitioner's water storage tanks. At this point, the remaining \$120,000 (approx.) from the bonds Petitioner issued in Cause No. 42176 could be used to repair storage facilities not attended to earlier or to help fund the next high-priority project from Petitioner's "10-Year Master Plan." (See RAP Attachment 3.)

Although there are no funds earmarked for tank renovations in the new bond issuance proposed in this case, Petitioner should have approximately \$188,000 in annual revenue from rates available for needed tank maintenance once new rates are approved and implemented. The OUCC acknowledges that it may be reasonable to postpone significant tank maintenance work until Petitioner's new 1

⁴ As previously noted, Petitioner has spent almost the entire 2006 year-end Bond Fund balance (approximately \$7.5 million as of 12-31-06) completing capital improvement projects authorized in Cause No. 42176. (For additional detail, see RAP Attachment I.)

1 MG Killian storage tank (which is to be funded through Petitioner's new proposed 2 bond issuance) is operational.

3 Q: Do you have any recommendations concerning future tank refurbishment projects?

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A:

If tanks are allowed to deteriorate, repairs become more costly in terms of degree of blast (SSPC grade) and coating systems required. Therefore, the OUCC recommends that Petitioner place greater emphasis on water storage tank maintenance after its new proposed bond issuance is approved. Specifically, the OUCC recommends that Petitioner be required to file a proposed tank refurbishment schedule by the end of 2008 (and serve a copy on the OUCC) covering Petitioner's seven (7) steel water storage tanks, to help ensure adequate maintenance. The filing should include a proposed schedule for refurbishing the tanks, copies of any related professional reports, the recommended degree of blast (SSPC-grade), paint system recommendations, and cost estimates.

V. <u>Petitioner's Proposed Capital Improvement Projects</u>

- 16 Q: What projects does Petitioner plan to fund through this rate case?
- 17 A: Some of the major projects are outlined in the testimony of Mr. Lawson and Mr.

 18 Gale, together with the cost estimates noted parenthetically below:
- 1) Adding a new 1 MG storage tank in the Killian pressure zone (\$2.6 M)
- 20 2) Veterans Memorial water main replacement project (\$2.1 M)
 - 3) INDOT main relocation projects (\$3 M)
- 22 4) Reconditioning North Plant flocculation basins (\$1.5 M)

| | | 1 4 6 0 0 1 1 3 |
|----|----|---|
| 1 | | 5) Adding a third set of Primary and Secondary Basins (\$6 M) |
| 2 | | 6) Adding two gravity filters (\$3.6 M) |
| 3 | Q: | Why are these projects needed? |
| 4 | A: | Following is a brief explanation of why each of the above projects is needed: |
| 5 | • | 1) Adding a New 1 MG Killian Storage Tank: First, the Killian |
| 6 | | Pressure Zone is supplied by a single pipe with a single .5 MG storage tank. |
| 7 | | Having a single source of storage creates some uncertainty regarding service |
| 8 | | reliability. Second, the University of Southern Indiana (USI), which is located in |
| 9 | | the Killian Zone, is expected to experience an overall demand increase of 570,000 |
| 10 | | GPD over the next several years. Finally, the design for fire flow demand is set at |
| 11 | | 3,500 GPM for three (3) hours, for a total of 630,000 gallons. Since current |
| 12 | | infrastructure is not sufficient to meet that criterion, Petitioner's plan to construct |
| 13 | | a new 1 MG storage tank in the Killian pressure zone is both reasonable and |
| 14 | | necessary. |
| 15 | | 2) <u>Veterans Memorial Water Main Replacement Project</u> : The |
| 16 | | Veterans Memorial main, installed in 1967, consists of 48" concrete cylinder pipe |
| 17 | | (CCP), and is the main feed to the east side of Petitioner's water utility system. |
| 18 | | Sections of the main have failed in recent years, necessitating costly repairs. Only |
| 19 | | a portion of the main is being replaced at this time. (RAP Attachment 4.) |
| 20 | | 3) <u>INDOT Main Relocation Projects</u> : Although only \$3 million is |

being requested in financing, Petitioner plans to spend approximately \$4 million

over the next twelve (12) months for main relocation projects stemming from

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INDOT road-widening activities. Due to its large customer base, the Petitioner does not qualify for grants or other pecuniary contributions. INDOT often participates in project cost sharing to varying degrees in the case of smaller communities. The upside is the replacement main will be new and perhaps of greater size or carrying capacity. It will also count toward Petitioner's ongoing main replacement program, not specifically mentioned in Petitioner's testimony.

- 4) Reconditioning North Plant Flocculation Basins: Petitioner reports not having taken the North Plant primary or secondary basins or clarifiers out of service for comprehensive reconditioning since they were newly installed in 1946. Petitioner plans to replace and repair baffles, valves, scrappers, bridges, walkways, etc., as needed.
- 5) Adding a Third Set of Primary and Secondary Basins: With a firm capacity of only 42 MGD, the basins represent the most limiting treatment process feature. Adding a third set of basins will increase firm capacity to meet a peak day demand of up to 54 MGD.
- 6) Adding Two Gravity Filters: Two (2) filters were decommissioned in 1999. Petitioner's planned addition of two (2) new filters will add six (6) MGD to its system, bringing plant capacity back up to its pre-decommissioning level (60 MGD). Since filtering capacity is the second most limiting factor in Petitioner's water utility system, these additions will provide significant additional plant capacity.

O: Do you agree with the need for Petitioner's proposed capital improvement projects?

A:

A:

Yes, the improvements will improve service reliability through greater Treatment Plant capacity and delivery. In its upcoming NPDES permit renewal with IDEM, Petitioner might be required to collect, pump and dispose of residuals produced from flocculation/sedimentation basins. These solids are currently being returned to the River along with backwash water. Mr. Gale estimated a cost of 4 million dollars (\$4.0M) or more to implement those environmental protection measures. (See RAP Attachment 5.) Up to this point, solids or residuals have been returned to the Ohio River (which, due to its size, results in significant dilution). However, it is possible that IDEM will impose additional restrictions when it issues Petitioner's next NPDES Permit.

Q: What are your recommendations concerning the capital improvement projects Petitioner plans to fund through its requested rate increase?

I recommend that Petitioner be authorized to make those capital improvements to its water utility system and continue with other project improvements identified in its "10-Year Master Plan," with emphasis on high priority projects outlined in the testimony of Mr. Lawson and Mr. Gale. I also recommend that Petitioner file annual reports with the IURC (and serve copies on the OUCC) to update the Commission on the status of the capital projects being funded in this rate case. Those reports should include the following information for each project on Petitioner's "2007-2009 Ranked Capital Project" list (Petitioner's Exhibit CG-3):⁵

⁵ For the Commission's convenience, I have attached a copy of Petitioner's Exhibit CG-3 to this testimony. (See RAP Attachment 6.)

the estimated project cost, the actual project cost to date, the total project cost
when completed, and projected and actual completion dates, once known.

VI. Rate Relief Requested Under Three-Phase Implementation Schedule

Q: What relief is the Petitioner requesting in this rate case?

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A:

Petitioner is seeking relief from increased operations and maintenance costs and intends to continue system improvements identified in its comprehensive "10 Year Master Plan," already discussed above.⁶ The progression under that plan will require additional bond funding of approximately \$36 million over the next three (3) or four (4) years, requiring rate adjustments of 12.1% in the first year, another 16.8% in the second year, and an additional 9.6% in the third year. Petitioner's proposed rate increase is more fully addressed in the testimony of the OUCC's accounting witness, Ms. Margaret Stull. The OUCC supports Petitioner's proposed phasing-in of the proposed rate increase to help mitigate the financial impact on consumers.

VII. Water Conservation Efforts

16 Q: Does Petitioner have a conservation program in place?

17 A: Petitioner does not have a structured or goal-oriented water efficiency or conservation program. However, it appears to have maintained acceptable lost

⁶ Evansville's "10 Year Master Plan" (a copy of which was provided as Petitioner's Exhibit CG-1) was developed primarily by Chris Gale of HNTB, with input from American Water ("AW") and from the Petitioner.

water rates (i.e., under 15%), especially given the size of its system, with close to 2 1,000 miles of water main to maintain. Petitioner also has information and links 3 to "Water Conservation Tips" available for customers to access on its Webpage (www.ewsu.com). Petitioner has a number of system expansion projects in its 4 5 "10-Year Master Plan," some of which might be avoided or delayed through more 6 The United States Environmental Protection Agency efficient water usage. 7 ("EPA") Website contains several case studies demonstrating the success of water 8 conservation programs. 9 Q: 10 official statements about efficient water use?

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Has the United States Environmental Protection Agency ("EPA") made any

11 Yes. The EPA Office of Water made an official "Statement of Principles on A: Efficient Water Use" in December, 1992. That statement read as follows: 12

> In order to meet the needs of existing and future populations and ensure that habitats and ecosystems are protected, the nation's water must be sustainable and renewable. Sound water resource management, which emphasizes careful, efficient use of water, is essential in order to achieve these objectives.

> Efficient water use can have major environmental, public health, and economic benefits by helping to improve water quality, maintain aquatic ecosystems, and protect drinking water resources. As we face increasing risks to ecosystems and their biological integrity, the inextricable link between water quality and water quantity become more important. Water efficiency is one way of addressing water quality and quantity goals. The efficient use of water can also prevent pollution by reducing wastewater flows, recycling industrial process water, reclaiming wastewater, and using less energy.

1 0: Has the EPA created any water conservation plan guidelines to help water 2 utilities plan and implement effective goal-oriented water conservation 3 strategies? 4 Yes. The 1996 Amendments to the Safe Drinking Water Act ("SDWA") A: 5 recognized the potential value of water conservation and required the EPA to 6 publish water conservation guidelines within two years of the Act's passage. On 7 August 6, 1998, the EPA published Water Conservation Plan Guidelines 8 ("Guidelines") (EPA Document No. EPA-832-D-98-001) for use by water utilities 9 in planning and implementing effective goal-oriented water conservation 10 strategies. The EPA Guidelines include the following statement: 11 These Guidelines are intended to help systems plan and implement 12 effective and goal-oriented water conservation strategies. The 13 Guidelines highlight the conservation goal of long-term reductions 14 in capital facility costs. They provide a methodology for systems 15 that are planning capital improvements (namely, SRF applicants) 16 to incorporate conservation into their plans. The conservation plan 17 can aid systems in making adjustments to planned capital 18 improvements and demonstrating the system's commitment to 19 efficient water supply operations. 20 Conservation planning can be beneficial to most water systems, not 21 just those with an impending capital project. Even systems that 22 consider supplies plentiful and facilities adequate find that 23 conservation planning helps use existing resources more efficiently 24 and save resources over the long term. 25 The planning approach reflected in these Guidelines is consistent 26 with the idea of integrated resource planning (IRP), which 27 emphasizes a balanced consideration of supply-management and 28 demand-management options in meeting a water system's needs. 29 According to this perspective, conservation can help water systems 30 avoid supply-side costs through cost-effective demand-side 31 management strategies. Ideally, integrated planning combines the 32 utility's best efforts in supply and demand management.

The benefits and costs associated with water conservation can be measured from a variety of perspectives: water suppliers, water customers, and society at large. For practical reasons, the Guidelines emphasize the perspective of the water supplier. Systems following the Advanced Guidelines are encouraged to examine conservation from other perspectives, including the broader societal viewpoint.

The OUCC supports the efficient use of Indiana's natural resources, and water is one of those valuable natural resources. The OUCC recommends that Petitioner utilize the EPA guidelines to develop a water conservation plan that meets Evansville's unique characteristics and needs.

VIII. Tank Painting Amortization Period

What, if any, concerns do you have regarding Petitioner's proposed tank

Petitioner is currently proposing to amortize its tank coating systems over ten (10) years. The OUCC recommends a 15-year amortization period based on the improved epoxy and urethane coating systems now available. Of course, surface preparation and proper application of any coating system is paramount to its longevity. The OUCC's recommended tank painting adjustment appears in "Schedule 6, Adjustment 7" in Ms. Stull's testimony.

IX. Recommendations

- 22 Q: Please summarize your recommendations for the Commission.
- 23 A: To recap, I recommend the Commission:

O:

| 25 | Q: | Does this | s conclude your testimony? |
|----------|----|-----------|---|
| 24 | | | least 15 years. |
| 23 | | 5) | Require that Petitioner use a tank coating amortization period of a |
| 22 | | ŕ | Program by the end of 2008, consistent with EPA guidelines. |
| 21 | | 4) | Require Petitioner to establish a Water Conservation and Efficient Use |
| 20 | | | actual project completion dates, once known. |
| 19 | | | cost to date, the total project cost when completed, and projected and |
| 17 18 | | | annual status reports should include the following information for each of the above projects: the estimated project cost, the actual project |
| 16 | | | capital improvement and tank refurbishment projects. Petitioner's |
| 15 | | | serve a copy on the OUCC, outlining the status of each of the above |
| 14 | | 3) | Require Petitioner to file an annual report with the Commission, and |
| 13 | | | blast (SSPC-grade), paint system recommendations, and cost estimates |
| 12 | | | copies of any related professional reports, the recommended degree of |
| 11 | | | filing should include a proposed schedule for refurbishing the tanks. |
| 10 | | | Petitioner's steel water storage tanks - currently seven (7) tanks. The |
| 9 | | , | the end of 2008 (and serve a copy on the OUCC) covering all of |
| 8 | | 2) | Require Petitioner to file a proposed tank refurbishment schedule by |
| , | | | Lawson and Wr. Gale. |
| 6 7 | | | those high priority projects outlined in the prefiled testimony of Mr. Lawson and Mr. Gale. |
| 5 | | | Evansville's "10-Year Master Plan." Emphasis should be placed on |
| 4 | | | Exhibit CG-3), which is based on recommendations developed in |
| 3 | | | projects on its "2007-2009 Ranked Capital Project" list (Petitioner's |
| 2 | | | projects approved in its last rate case and to continue implementing the |
| ì | | 1) | Require Petitioner to complete any unfinished capital improvement |

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A:

Yes.

EVANSVILLE WATER UTILITY

2004 WATER BONDS - ANNUAL PROJECT STATUS REPORT FOR YEAR ENDING 12/31/06

| PAR AMOUNT OF BONDS | 25,380,000.00 |
|--|-----------------|
| BOND DISCOUNT | (146,287.10) |
| BOND PREMIUM | 151,034.50 |
| UNDERWRITER'S DISCOUNT | (254,598.51) |
| BOND INSURANCE | (73,747.48) |
| SURETY BOND FOR DEBT SERVICE RESERVE | (37,821.81) |
| TOTAL CASH PROCEEDS FROM BOND | 25,018,580 |
| INTEREST FROM BOND INVESTMENTS | 994,412.30 |
| TOTAL CASH IN 2004 WATER BOND FUND | 26,012,991.90 |
| EXPENDITURES ON BOND FUND PROJECTS AS 12/31/06 | (18,557,356.75) |
| CASH BALANCE IN BOND FUND 12/31/06 | 7,455,635.15 |

EVANSVILLE WATER UTILITY

2004 WATER BONDS - ANNUAL PROJECT STATUS REPORT FOR YEAR ENDING 12/31/06

| PROJECT DESCRIPTION | ACTUAL COSTS AT 12/31/2006 | OUTSTANDING CONTRACTED COSTS AT 12/31/06 | ESTIMATED COSTS TO COMPLETE PROJECT | |
|---|----------------------------------|--|--|---|
| | · | | | |
| Replace First Avenue and Weinbach Booster Stations | 1,197,788.10 | 0.00 | | Project completed January 2005 |
| 36" Main extension on Second Avenue - from intersection on Market at and Ingle to the intersection of Third Avenue and Morgan Avenue | 3,067,679.21 | 0.00 | | Project completed July 2005 |
| 12" Water Main extension along Pollack Avenue | 90,671.73 | 0.00 | | Project completed December 2004 |
| Diamond Avenue Water Line Replacements at the intersection of St Joseph, Kratzville Rd. and 1st Avenue | 615,426.55 | 0.00 | | Project completed August 2005 |
| Relocation of 12" main at Petersburgh Rd and Senate | 32,107.48 | 0.00 | | Project completed December 2004 |
| Main Extensions (1) 36" main on Old State Rd from Campground Booster Station to Boonville New Harmony Road and (2) 30" main on US 41 from | | | | Project Completed Year |
| Boonville New Harmony Road to Volkman Road | 6,678,902.33 | 0.00 | | 2006 |
| 16" Main Extension on Harmonyway | 1,835,107.66 | 0.00 | | Project Completed Year 2006 |
| 48" Main Replacement on Veteran's Memorial Parkway | 129,405.00 | 0.00 | | Design Phase Completed |
| Installation of SCADA System at the Filtration Plant | 191,700.00 | 701,188.00 | | Construction in progress; estimated to be completed in 2007 |

| PROJECT DESCRIPTION | ACTUAL COSTS AT 12/31/2006 | OUTSTANDING CONTRACTED COSTS AT 12/31/06 | ESTIMATED COSTS TO COMPLETE PROJECT | |
|---|----------------------------------|--|--|---|
| High Service Pumps and Flow Metering Project | 560,110.67 | 1,275,609.00 | 150,000.00 | Construction in progress; estimated to be completed in 2007 |
| Filter Plant Process Improvements - Chemical Feed System | 923,535.00 | 4,477,623.31 | 145,775.00 | Construction in progress; estimated to be completed in 2007 |
| Replace Filter Plant Roof | 2,597,234.33 | 705,440.00 | | Construction in progress; estimated to be completed in 2007 |
| Bond Issue Costs | 134,859.69 | 0.00 | | |
| Evaluate membrane filtration for capacity needs and turbidity requirements and evaluate polymer addition for enhanced coagulation to comply with Stage 1 DBPR | 480,468.66 | 0.00 | | Completed Year 2004 |
| Study to evaluate Water Distribution and Treatment Plant Improvements | 22,360.34 | 0.00 | | Completed year 2005 |
| TOTAL | 18,557,356.75 | 7,159,860.31 | 295,775.00 | |

Evansville Water and Sewer Tank Projects

| H025.10 | H025.09 | H025.01 | TIC Project No. | |
|--|---|--|--|----------------------------|
| Killian Reservoir | Campground Reservoir | Lincoln Ave. Tank | Volkman Tank t No. Tank Name | Tank Name |
| | 20,000,000 | 500,000 | 1,500,000 Capacity (Gal) | Capacity (Gal) |
| 1996 Evaluation-Washout-Disinfection 1996 Detailed Technical Specifications Contractor-TMI Coatings Inc. 1997 Bid Review 1997 Pre-Construction Meeting 1997 Resident Observation 1999 Warranty Observation Total | 1994 Evaluation 1994 Detailed Technical Specifications Diig Brothers Lumber & Construction 1994 Bid Review 1995 Mid-Point Project Observation Total | 1990 Evaluation-Washout-Disinfection 1990 Detailed Technical Specifications 1990 Contractor-G&M Painting 1990-91 Contract Administration & Resident Observation 1992 Warranty Observation | 1999 Built Year Professional Services | Year Professional Services |
| \$5,100.00 \$18,650.00 \$380,620.00 \$1,422.50 \$410.00 \$48,744.75 \$1,200.00 \$456,147.25 | \$4,770.00 \$8,480.00 \$500.00 \$838.00 \$14,588.00 | \$3,640.00 \$4,500.00 \$205,000.00 \$20,000.00 \$275.00 \$234,115.00 | Fees | Fees |

249,459.50

101,719.62 595,909.37 34,860.00

37,082.00

174,737.00

120,697.12

5,620,397.14

Evansville Water Utility 2004 Water Bond Fund

State Group - Scada Construction

HNTB- Filter Plant Roof/Plant Improv. Design CED Electric - VFD& SSRV Package

ITT Industries - Horizontal Split Case Pumps

Oustanding Contract Costs greater than

Cash in Water Bond Fund by

Quatariding Contract Balances - incomplete Projects

Armstrong - Design High/Low Service Pumps & Flow Monitoring

TTT AC/Goulds Pumps - Motor for High Service Pump # 4

CASH BALANCE IN 2004 WATER BOND FUND AT 2/28/07

| Cash from Bond Sale | \$ | 25,018,580.00 |
|--|----------|-----------------|
| Interest Income - Year 2004 | \$ | 41,484.69 |
| Interest Income - Year 2005 | \$ | 460,681.98 |
| Interest Income - Year 2006 | \$ | 492,245.63 |
| Interest Income - Jan 2007 | \$ | 7,809.09 |
| Interest Income - Feb 2007 | <u> </u> | 60,610.18 |
| Total Bond Fund Cash | \$ | 26,081,411.57 |
| Cash Payments - Years 2002 - 2004 | \$ | (7,137,775.42) |
| Cash Payments - Year 2005 | Š | (7,002,943.65) |
| Cash Payments - Year 2006 | Š | (4,416,638.08) |
| Cash Payments - Jan 2007 | Š | (1,127,260.01) |
| Cash Payments - Feb 2007 | <u> </u> | (897,094.39) |
| Total Cash Payments on Bond Fund Projects | \$ | (20,581,711.55) |
| Cash Balance in 2004 Water Bond Fund at 2/28/07 | \$ | 5,499,700.02 |
| INCOMPLETE PROJECTS/CONTRACT BALANCES | | |
| Empire Contractors - Roof Construction | \$ | 53,245.00 |
| PPMI Construction Company - Chemical Feed System | \$ | 3,776,642.95 |
| Deig Bros - High Serv Pump & Flow Metering | \$ | 514,841.70 |
| Ingen - SCADA Design | \$ | 81,900.00 |
| State Court Sanda Construction | • | 240 450 50 |



Attachent 34 (a)

March 5, 2004

Mr. Rick Glover EA2/Systems 1931 Allens Lane Evansville, IN 47720

Subj: 48-inch PCCP Watermain Repair along Veterans Memorial Parkway

Dear Rick:

Included you will find the current T&M labor and material costs for the 48" pipe removal/repair on Veterans Memorial Parkway and a revised Payment Application. Duane Gilles has a copy of all backup associated with the T&M budget for the welding and additional costs associated with the first two joints. The total cost for the project, including all T&M costs are:

| Original Contract | \$57,700 |
|---|-----------|
| Add for use of Flowable Fill | \$9,530 |
| Add for Traffic Control | \$8,900 |
| T&M Amount for Pipe Repair (1st & 2nd Joint) | \$52,297 |
| Contract for Repair of 3rd Joint | \$72,600 |
| Contract for Welding of 3 rd Joint | \$8,000 |
| T&M Amount for Emergency Repair Operations | \$185,933 |
| | \$394,960 |

Please contact me at mobile 305-6078 it I can be of further assistance.

Respectfully submitted,

Rick Meunier

Project Engineer

Bowen Engineering





PROPOSAL

Mr. Duane Gilles EA2/Systems 1931 Allens Lane Evansville, IN 47720

Subj: 48-inch PCCP Watermain Repair along Veterans Memorial Parkway

Dear Duane:

Thank you for choosing Bowen to prepare a proposal to repair the existing 48-inch PCCP water main that is leaking under the northbound lane of Veterans Memorial Parkway near Waterworks Road.

BASE BID AMOUNT \$ 72,600.00

Inclusions:

- 1. Supervision, labor, equipment and materials to expose the third joint of the existing 48-inch PCCP approximately 56lf from the B-slew. We have assumed that the top of the pipe is 15'-0" down from the top of the pavement.
- 2. Bowen will use the trench box, road plates, and ranger system currently on the jobsite.
- 3 The guardrail in the median will not be removed to ensure a safer project site. Assuming the next section of 48-inch PCCP is 20'-0" in length, removal of guardrail will not be an issue
- 4 Casual dewatering utilizing a generator discharging into the adjacent Be-Slew creek has been included.
- 5 Flowable fill has been included for the backfill of the excavation per the specifications provided by the Evansville City Engineer.
- 6. Sawcut and restore existing concrete pavement and asphalt shoulder as required. Both were assumed to be 8-inches thick and can be replaced with concrete according to the details provided by the Evansville City Engineer.
- 7. Builder's risk and liability insurance as is typical for work with the City.
- 8. Excess soil and asphalt/concrete pavement will be disposed of offsite.
- 9. Traffic control has been included per the attached information. The design of the traffic control has been coordinated with Richard Meyer, but should additional measures be required at a later date, they will be added on a cost basis without markup. Nothing has been included for the traffic control required during shutdowns to access the air release manhole on the southbound lane. Temporary striping is not included.

Where Service Is More Than A Promise

Industrial and Municipal Contractors



Mr. Duane Gilles January 22, 2004 Page 2 of 2

Clarifications:

- 1. Repair of 48-inch PCCP is not included. A lump sum price can be provided after exposing the next joint and determining the method and requirements of repair.
- 2. We have assumed that there are no existing utilities to contend with in and around our excavation (ex. gas, telephone, fiber-optic, sewer, etc..)
- 3. Proposal based on straight time wages.
- 4. Sales tax is excluded.
- 5. Performance and payment bond was not required with the previous agreement and is therefore excluded.
- 6. Payment terms 90% net 30 and 10% upon successful completion.
- 7. This quote is valid for (30) days.

Bowen has a crew available to begin this work immediately. We estimate that it will take 8 to 10 working days to have the pipe exposed for repair upon written direction to proceed with work. Once repairs are made, we estimate that it will take 8 to 10 days to restore the area to its original condition (excluding seeding in Spring 2004). Project is bid with working straight time hours only

Please contact me at mobile 305-6078 if i can be of further assistance

Respectfully submitted,

BOWEN CORPORATION

Rick Meunier Project Engineer

Encl: Bowen traffic control sketches



RAP Attach 4 P. 4 of 7





PROPOSAL

Mr. Duane Gilles EA2/Systems 1931 Allens Lane Evansville, IN 47720

Subj: 48-inch PCCP Watermain Repair along I-164

Dear Duane:

Thank you for choosing Bowen to prepare a proposal to repair the existing 48-inch PCCP water main that is leaking under the southbound lane of I-164 near Waterworks Road.

BASE BID AMOUNT \$ 57,700

Inclusions:

- 1. Supervision, labor, equipment and materials to expose the existing 48-inch PCCP where it is leaking per the attached Bowen Sketches 1 and 2. We have assumed that the top of the pipe is 13'-6" down from the top of the pavement.
- 2. Not knowing if the leak is isolated to one PCCP joint or if one or more PCCP sticks may need to be removed, we elected to utilize a 10 ft x 20 ft steel trench box along with 20 ft long steel plates to create a sheeted 3-sided cell around the pipe starting approximately 4 ft east of the edge of concrete pavement in the southbound lane. We feel this will give the City more flexibility if there is more than one leak. We can quote a round cased sheeted cell if requested, but we do not advise this based on our site visits
- 3 Existing guardrall will be removed and relastabled as necessary as the sheeted cell will extend just west of the guardrali
- 4 Casual dewatering utilizing a generator discharging into the adjacent Be-Slew creek. Silt fence will be installed to protect creek from surface runoff.
- 5. Sawcut and restore existing concrete pavement and asphalt shoulder. Both were assumed to be 8-inches thick.
- 6. Topsoil will be stripped, stored and replaced along the banks where disturbed. We have included seeding disturbed areas and erosion matting along the steep slope.
- 7. Builder's risk and liability insurance as is typical for work with the City.
- 8. Excess soil and asphalt/concrete pavement will be disposed of offsite.

Where Service Is More Than A Promise



Industrial and Municipal Contractors

Mr. Duane Gilles December 2, 2003 Page 2 of 2

Clarifications:

- 1. Repair of 48-inch PCCP to be completed on a T&M basis per attached rates.
- 2. Traffic control is not included, if required add \$ 8,900
- 3. We have included sand backfill and compaction testing under the highway, if flowable fill is required add \$ 9.530.
- 4. We have assumed that there are no existing utilities to contend with in and around our excavation (ex. gas, telephone, fiber-optic, sewer, etc..)
- 5. Proposal based on straight time wages.
- 6. Sales tax is excluded.
- 7. Performance and payment bond is excluded, if required add \$ 523
- 8. Payment terms 90% net 30 and 10% upon successful completion.
- 9. This quote is valid for (30) days.

Bowen has a crew available to begin this work immediately. We estimate that it will take 8 to 10 working days to have the pipe exposed for repair upon written direction to proceed with work. Once repairs are made, we estimate that it will take 8 to 10 days to restore the area to its original condition (excluding seeding in Spring 2004).

Please contact me at mobile 305-3775 if I can be of further assistance

Respectfully submitted,

Area Manager

Ericl: Bowen sketches 1 and 2

Bowen T&M rates

MENGINEERING CORPORATION

6724 EAST MORGAN AVENUE, SUITE B

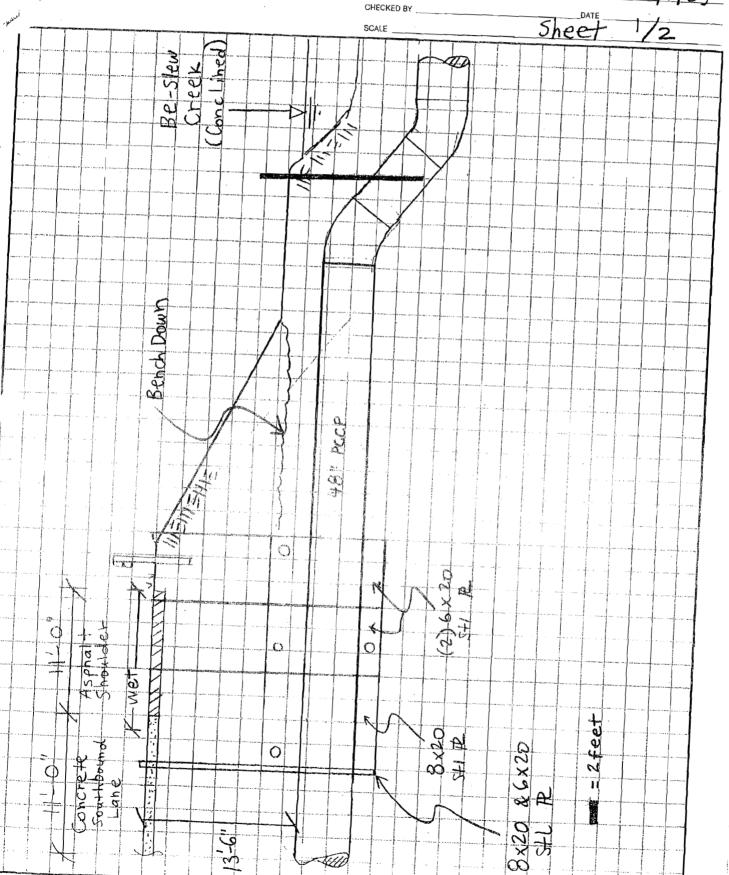
EVANSVILLE, INDIANA 47715

(812) 475-3880

EVansville 48" PCCP Repair

SHEET NO. I-164

CALCULATED BY JSP DATE 12/1/03



EVANSVILLE WATER AND WASTEWATER MASTER PLAN WATER TREATMENT PLANT COST ESTIMATING SPREADSHEET

Install Residuals Collection & Pumping Facility

PROJECT NO. 4

General Description

This project involves the installation of a residuals collection and pumping facility for filter backwash & sedimentation processes to be sent directly to the wastewater treatment plant. The facility includes an interceptor sewer for conveying backwash waste and sedimentation basin residuals to a 35,000-gallon, inground lift station, where it is then pumped by dual, 24-in. diameter DI force mains to the wastewater treatment plant. An overflow structure with piping to the Ohio River will be incorporated into the final interceptor manhole for diversion of stormwater runoff to the river during rain events.

| Summary of Project Costs | | |
|---|------|----------------------------------|
| | | |
| Construction Cost Opinion Without Contingency or Markup (from page ⊰) | | \$7,951,000 |
| Contractor Overnsad & Profit Mark-up Construction Cost Octobor Without Conding accer | 19% | \$195,000 32,146,000 |
| Condingers y Construction Gran Upfalos | 1974 | \$022,000 \$2,468.000 |
| Engineering Project Management sort Legal Total Project Cost | 15% | \$370,000 \$2,800,00 6 |
| | | |

EVANSVILLE WATER AND WASTEWATER MASTER PLAN WATER TREATMENT PLANT COST ESTIMATING SPREADSHEET

Install Residuals Collection & Pumping Facility

PROJECT COST OPINION WORKSHEET

| ITEM | Units | Quantity | Unit Cost (\$) | Initial Cost (\$) |
|--|--------------------------------|---|--|----------------------|
| Structural | | | | |
| Earthwork | See Detailed Stru | ictural Worksheet, | p. 3 | \$357,100 |
| Concrete | See Detailed Stru | ictural Worksheet, | p. 3 | \$127,525 |
| Metals · | | ictural Worksheet, | | \$27,500 |
| Buildings | See Detailed Stru | ictural Worksheet, | p. 3 | \$0 |
| Demolition | See Detailed Stru | ictural Worksheet, | p. 3 | \$20,000 |
| Process Mechanical & Control Equipment and M | lajor Piping Syste | m <u>s</u> | | |
| D.I. Pipe - 16-in. diam. (buried 25 ft. dp.) | ft | 100 | \$105 | \$10,500 |
| D.I. Pipe - 24-in. diam. (buried 6-10 ft. dp.) | ft | 3,200 | \$95 | \$304,000 |
| RCP Pipe - 36 in. (>25 ft. dp.) | ft | 60 | \$200 | \$12,000 |
| RCP Pipe - 48 in. (>25 ft. dp.) | ft | 120 | \$300 | \$36,000 |
| RCP Manholes - 6 ft. diam. (30 ft. dp.) | each | 1 | \$10,000 | \$10,000 |
| RCP Manholes - 7 ft. diam. (30 ft. dp.) | each | 1 | \$12,000 | \$12,000 |
| RCP Manholes - 8 ft. diam. (40 ft. dp.) | each | 2 | \$15,000 | \$30,000 |
| Sluice Gates - 48 in. x 48 in. | each | 1 | \$20,000 | \$20,000 |
| D.I. Pipe - 16-in. diam. (exposed/flanged) | ft | 180 | \$75 | \$13,500 |
| Plug Valves - 16-in, diam. | each | 3 | \$4,000 | \$12,000 |
| Check Valves - 16-in. diam. | each | 3 | \$13,000 | \$39.000 |
| D.I. Fittings - 16-in. diam. (exposed/flanged) | lump sum | 1 | \$25,000 | \$25,000 |
| D.I. Printings - 10-III. dram. (exposed/flanged) D.I. Pipe - 24-in. diam. (exposed/flanged) | ft | 40 | \$100 | \$4.000 |
| D.I. Fittings 24-in. diam. (exposed/flanged) | lump sum | 1 | 16,000 | \$16,000 |
| Submersible Purios - 10,000 gpm | each | 37 | \$120,000 | \$360,000 |
| _evel Montaning/Control System | lump sun: | -2, -1 | \$15,000 | \$15.000 |
| | ming states | • | gr v ary total to | # 10,000 |
| Special Ametricale | | | | |
| Piccewa - sisiorcement and structures (6' fylith | iump som | ** | \$35,0de | \$35,000 |
| Force is a maintenance and structures (7 MH) | tump sum | . 1 | 645,000 | \$45,000 |
| etgright provenion cement and structures (8: MH) | tump sun | ŧ | 455,000 | \$55,000 |
| Sub-rotar Construction Cost | en a raye and a Section of the | dotal material conditions | e e e | \$1,586,125 |
| is a toler of constitution of the constitution of the state of | | ere ere unter stelle stelle ere ere er er | Assumed % of | A STATE OF THE |
| retal Construction Cost Percentage-Based Estir | nates | | Construction Cos | |
| Process-Mechanical and Yard Piping Systems | | | 3 % | \$47.584 |
| HVAC & Plumbing | | | 2% | \$31,723 |
| Electrical | | | 7% | \$111,029 |
| Instrumentation | | | 3% | \$47,584 |
| Sitework | | | 3% | \$47.584 |
| General conditions, bonds, mobilization, and demob | ilization | | 5% | \$79,306 |
| Construction Cost Opinion Without Co | ntingonovov | Andres | ndreddiffu e mae 1981 file i 29dd wad en 1994 fil 1994 a deil i'i 1995-wesel | \$1,950,934 |

EVANSVILLE WATER AND WASTEWATER MASTER PLAN WATER TREATMENT PLANT COST ESTIMATING SPREADSHEET

Install Residuals Collection & Pumping Facility

Detailed Structural Worksheet

| ITEM | Units | Quantity | Unit Cost (\$) | Initial Cost |
|---------------------------------------|----------|----------|-------------------|-------------------|
| Structural Detail | | | | |
| Earthwork: Dewatering | days | 90 | \$1,100 | \$99,000 |
| Earthwork: Permanent Sheeting | sq ft | 5,500 | \$25 | \$137,500 |
| Earthwork: Tight Sheeting | sq ft | . 0 | \$25 | ` \$0 |
| Earthwork: Temporary Sheeting | sq ft | 0 | * \$20 | \$0 |
| Earthwork: Excavation | cu yds | 1,300 | \$12 | \$15,600 |
| Earthwork: Underdrain System | sq yds | 0 | \$20 | \$0 |
| Earthwork: Structural Fill | cu yds | 500 | \$30 | \$15,000 |
| Earthwork: Earth Fill | cu yds | 0 | \$10 | \$0 |
| Earthwork: Pile Foundation | sq ft | 1,000 | \$90 | \$90,000 |
| Earthwork Total | - 1 | | *** | \$357,100 |
| Concrete: Prep. & Rework | lump sum | 1 | \$15,000 | \$15,000 |
| Concrete: Footings | cu yds | . 30 | \$180 | \$5,400 |
| Concrete: Base Slab | cu yds | 50 | \$200 | \$10,000 |
| Concrete: Walls | cu yds | 175 | \$450 | \$78,750 |
| Concrete: Floor Slabs | cu yds | 0 | \$250 | \$0 |
| Concrete: Structural Slabs | cu yds | 15 | \$575 | \$8,625 . |
| Concrete: Walkways | cu yds | 10 | \$350 | \$3,500 |
| Concrete: Columns | cu yds | 0 | \$600 | \$0 |
| Concrete: Channels | cu yds | 2.5 | \$250 | \$6,250 |
| Concrete: Precast Troughs | cu yds | Ç. | \$200 | \$0 |
| Concrete Total | • | | | \$127,525 |
| Metals, Grating | są II | 300 | \$35 | \$10,500 |
| Metals, Aluminum Handraif | ħ | 100 | \$50 | \$5,000 |
| Metals: Stairway | dsem | Đ. | \$500 | SU |
| Metals: Aluminum Geodesk Connequated) | પ્સુ ઉ | ž. | \$35 | \$0 |
| Metals, Aluminum Geodesic Omna tract | ii pa | - 6 | \$2,800 | ŝt. |
| Metals: Baffles and Weira | f: | 4) | \$25 | \$0 |
| Metals Hatches | 5800 | 8 | \$2,00C | st2,000 |
| Metals Total | | | | \$27,500 |
| Tank Cover | sq fl | 4) | \$5 0 | .)5(1 |
| Building, One-Story Building | કુત તે | 0 | \$60 | \$0 |
| Building, Two Story | sq fi | ή | \$140 | \$0 |
| Building: Pre-engineered | sq fl | 9 | \$50 | <u>\$0</u> |
| Building Total | | | | \$0 |
| Demolition Selective | cu fi | 400 | \$25 | \$10,000 |
| Demolition: Structure | ou ft | 0 | \$1 0 | \$() |
| Demolition. Mechanical | iump sum | 1 | \$10,000 | \$10,0 0 0 |
| Demolition Total | | | | \$20,000 |

2007-2009 Ranked Capital Improvements Projects Water Treatment Plant and Distribution System Evansville, IN

| Project | | | | Project Costs | Costs | | | |
|---------------------|--|--------------|-------------|------------------|------------|-----------------------------|--------------|---|
| Priolity Ranking | Project Description | Construction | Contingency | Planning / Study | Design | Administration | TOTAL | Remarks |
| Water Tre | Water Treatment Plant Improvements | | | | | | | |
| - | Replace three existing V-800 chlorinators with four (4) new V-2000 chlorinators | \$80,000 | \$12,000 | | | | \$92,000 | Finish refurbishement of chlorine feed system |
| 2 | Add SCADA to ammonia, sodium chlorite, chlorine dioxide, and chlorine feed | \$140,000 | \$21,000 | | \$25,000 | \$12,000 | \$198,000 | Finish chemical feed SCADA installation |
| " | Install decilioramination facilities for backwash and filter-to-waste wastewaters to Ohio River (preliminary design) | | | | \$110,000 | | \$110,000 | No Action - Action to accur when required by NPDES |
| 4 | Install residuals collection and pumping facility for filter backwash waste & sedimentation processes to WMTP (preliminary design) | | | | \$110,000 | | \$110,000 | No Action - Action to occur when required by NPDES |
| v, | Recondition North Plant flocculation tanks (baffles, mixers & sluice gates) and primary sedimentation basin sludge scrapers | \$1,100,000 | \$170,000 | | \$120,000 | \$130,000 | \$1,520,000 | Update North Plant flocculation and primary sedimentation |
| ဖ | Replace 4160-volt motor starters on LS Pumps #1.#6. Replace magnetic drive on LS Pump #1 with a VFD and add a control unit. | \$650,000 | \$98,000 | | \$75,000 | \$75,000 | \$898,000 | Update low service pumping electrical |
| - | Replace 4160-volt motor starters on HS Pumps #8-#10. Replace magnetic drive on HS Pump #9 with a VFD and add a control unit. | \$440,000 | \$66,000 | | \$50,000 | \$50,000 | \$606,000 | Update high service pumping eectrical |
| | Perform flow pattern analysis for the entire plant for North/South clearwell interconnect | | | \$50,000 | | - | \$50,000 | Determine where water is going between N. & S. Plants |
| 6 | Add 3rd set of South Plant Primary and Secondary Basins | \$4,400,000 | \$660,000 | | \$500,000 | \$500,000 | \$6,060,000 | Increase flow capacity of South Plant & assist with flow balancing between N. & S. Plants |
| 9 | Add Filters 35 and 36 (6 MGD conventional media filters) | \$2,600,000 | \$390,000 | | \$300,000 | \$300,000 | \$3,590,000 | Increase firm fitration capacity to 60 MGD |
| = | Add two backwash water flow meters | \$50,000 | \$8,000 | | \$10,000 | | \$68,000 | increase reliability of fitter backwash flow metering |
| 12 | Renovate Traveling Screen #2 | \$80,000 | \$12,000 | | \$15,000 | \$5,000 | \$112,000 | Update raw water screening |
| 13 | Individual filter effluent flow meters filters 13-20 | \$60,000 | 000'6\$ | | \$15,000 | | \$84,000 | Increase reliability of filter effluent flow metering |
| 41 | Conduct inventory and replace 220-volt and 480-volt (as needed) circuit breakers throughout the plant. | \$180,000 | \$27,000 | \$20,000 | \$25,000 | | \$252,000 | Increase reliability of electrical service |
| 15 | In-depth plant life span/alternate plant feasibility study (collector wells, new surface water plant, etc.) | | | \$300,000 | | | \$300,000 | Determine options for replacing or refurbishing existing plant |
| 16 | Re-route South Plant filtered water main to 1,5 MG cleanwell | \$200,000 | \$30,000 | | | \$50,000 | \$280,000 | Ensure flow path of S. Plant finished water |
| 11 | Complete Phase III of lead paint abatement program in Filter Building | \$200,000 | \$29,000 | 87,000 | \$25,000 | \$20,000 | \$281,000 | Re-coat lead based painted walls |
| 82 | Paint low service building on the interior and exterior | \$80,000 | \$12,000 | | \$12,000 | \$10,000 | \$114,000 | Update coating of low service building |
| 6 | Evaluate chlorite/chlorate formation in sed. basins due to chloritie dioxide (ClO ₂) feed in the raw water (during summer) | | | \$75,000 | | | \$75,000 | Determine whether or not chlorite formation is an issue with raw water CIO ₂ feed |
| 50 | Evaluate alternative inactivation technologies (UV, Ozone, & membranes) for Crypto inactivation/removal if needed to meet LT2 requirements | | | \$200,000 | | | \$200,000 | Needed if Crypto conc. is greater than 0.075 oocysts/L (Bin 1 limit) |
| | | | | | Water Trea | Water Treatment Plant Total | \$15,000,000 | |

1 of 2

2007-2009 Ranked Capital Improvements Projects Water Treatment Plant and Distribution System Evansville, IN

| | | | | | Project Costs | | | | | _ |
|-------------|---|---------------|-------------|----------|---------------|----------------|---------------------------|--------------|-----------------------------------|---------------|
| Project | | | | | | Construction | Property / | | | |
| Ranking | Project Description | Construction | Contingency | Planning | Design | Administration | Acquisition | TOTAL | Remarks | _ |
| Distributio | Distribution System Improvements | | | | | | | | | $\overline{}$ |
| - | Veterans Memorial water main replacement (1,100' of 48") | \$1,670,000.0 | \$228,000 | | | \$150,000 | \$50,000 | \$2,098,000 | No Action | |
| ~ | Replace #2 booster pump at Kilian Station w/VFD | \$55,000.0 | \$8,000 | | \$13,000 | | | \$76,000 | New Project | |
| n | Vanness Phase III/Hogue/Rosenburg 300' of 12' change services | \$90,000.0 | \$14,000 | | | | | \$104,000 | No Action | _ |
| 4 | Oak Hill Road 8,000' of 8* | \$530,000.0 | \$80,000 | | | | | \$610,000 | No Action | T |
| S | Emergency Generator for Operations Building - Phones, Computer Servers and MP-2, Lights, Heating and A/C | \$65,000.0 | \$10,000 | | | | | \$75,000 | New Project | |
| ۰ | Stringtown Louisiana to Morgan (1300' of 16") | \$174,000.0 | \$26,000 | | \$30,000 | \$10,000 | | \$240,000 | New Project | 1 |
| , | Water main improvements associated w/ INDOT road proj. | \$2,180,000.0 | \$327,000 | | \$250,000 | \$150,000 | \$100,000 | \$3,007,000 | Utilty current avgs. approx 1M/yr | |
| 80 | Meter Reading Equipment | | | | | | \$100,000 | \$100,000 | New initiatives | _ |
| 6 | Industrial Meter Replacement | | | | | | \$200,000 | \$200,000 | New initiatives | _ |
| 10 | New elevated storage tank in Killian Pressure Zone | \$1,850,000.0 | \$280,000 | \$20,000 | \$80,000 | \$280,000 | \$50,000 | \$2,560,000 | Additional storage | _ |
| = | Old State Rd. West of Hwy 41 (Tie-in to 30" main) (400' of 8") | \$55,000.0 | \$8.000 | | | | | \$63,000 | New Project | _ |
| 12 | Schaller Ln. (1,200' of 8") | \$55,000.0 | \$8,000 | | | | | \$63,000 | New Project | _ |
| 5 | Altitude valve and piping modifications at Lincoln Tank. | \$55,000.0 | \$8,000 | | \$13,000 | | | \$76,000 | New Project | |
| * | 7" Avenue from Shanklin St to Florida St 1,240' of 8" | \$98,000.0 | \$15,000 | | | | | \$113,000 | No Action | _ |
| 5 | Shanklin St from 7th Ave. to Fulton Ave 1,180' of 8" | \$82,000.0 | \$12,000 | | | | | \$94,000 | No Action | _ |
| 9 | Morgan Avenue (Hwy 41 to Fares) 2,300° of 12" | \$196,000.0 | \$29,000 | | \$35,000 | \$10,000 | | \$270,000 | No Action | |
| 4 | Add VFD for #1 booster pump at Campground Booster | \$22,000.0 | \$3,000 | | \$8,000 | | | \$33,000 | New Project | |
| 18 | 12" main on Mohr Rd - from existing water main to St Joe Ave (1,700') | \$260,000.0 | \$39,000 | | \$40,000 | \$20,000 | | \$359,000 | No Action | |
| 19 | St. George Rd. from Ward Rd to Oak Hill Rd 2,670' of 8" | \$185,000.0 | \$28,000 | | | | | \$213,000 | No Action | _ |
| 20 | Hydrant Replacement Program | \$48,000.0 | \$7,000 | | | | | \$55,000 | No Action | |
| 21 | Valve Replacement/Installation Program | \$90,000.0 | \$14,000 | | | | | \$104,000 | · No Action | |
| 22 | Replace Main on Helfrich From Broadway to Saunders (1,100 of 8") | \$65,000.0 | \$10,000 | | | | | \$75,000 | New Project | |
| 23 | 500 block of Boehne Ave., Replace old 2" main and service change- overs (600' of 6" and 1.400' of 8" on Claremont) | \$44,000.0 | \$7,000 | | | | | \$51,000 | New Project | |
| 24 | Ruston Lane and Hwy 57, Tie-in Main on Ruston to Main on Hwy 57 (150' of 12") | \$8,000.0 | \$2,000 | | | | | \$10,000 | New Project | _ |
| 25 | Replace Main On Frey Road North of Broadway (2080' of 8") | \$130,000.0 | \$20,000 | | | | | \$150,000 | New Project | |
| 56 | Covert Avenue (Shoshone, Pollack & Fuquay) 8,100 of 12" | \$305,000.0 | \$46,000 | | \$45,000 | \$25,000 | | \$421,000 | No Action | _ |
| 22 | Extend Main to serve the 1800 and 1900 Blk's of S Werner | \$44,000.0 | \$7,000 | | | | | \$51,000 | New Project | _ |
| 28 | Extend Main to serve Saunders Ave East of Werner and the 1800 Blk of S Craig | \$25,000.0 | \$4,000 | | | | | \$29,000 | New Project | |
| | | | | | | Distribu | Distribution System Total | \$11,300,000 | | _ |